

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: P1315634

Luminaire Tested: P3SQAS20R209740D010 E3SQPHLP1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R209740D010 E3SQPHLP1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3SQPHLP1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

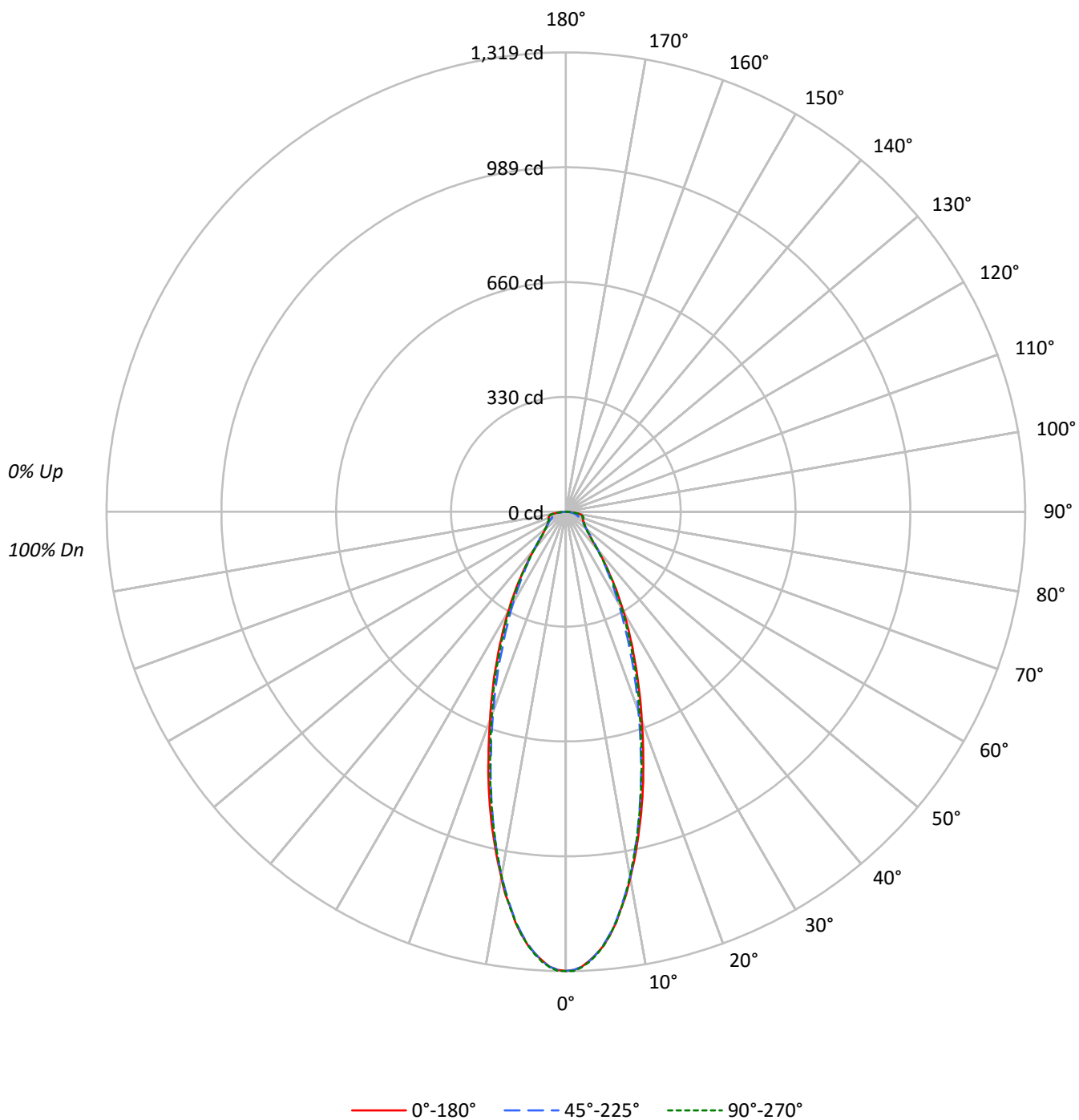
Lumens per Lamp: N/A  
Luminaire Lumens: 930.0 lumens  
Efficiency: N/A  
Efficacy: 32.3 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.6 / 0.65  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  |  | 97  | 95  | 94  |  | 94  |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  |  | 90  | 86  | 83  |  | 87  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 85  | 81  | 77  |  | 83  | 79  | 75  |  | 81  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 75  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 68  | 64  |  | 72  | 67  | 63  |  | 71  |
| 6   | 82  | 72  | 65  | 60  | 81  | 71  | 65  | 60  | 69  | 64  | 59  |  | 68  | 63  | 59  |  | 67  |
| 7   | 78  | 67  | 61  | 56  | 77  | 67  | 60  | 56  | 65  | 60  | 55  |  | 64  | 59  | 55  |  | 63  |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  |  | 61  | 55  | 52  |  | 60  |
| 9   | 71  | 60  | 53  | 49  | 69  | 59  | 53  | 49  | 58  | 53  | 49  |  | 57  | 52  | 49  |  | 57  |
| 10  | 67  | 57  | 50  | 46  | 66  | 56  | 50  | 46  | 55  | 50  | 46  |  | 55  | 50  | 46  |  | 54  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 227110 | 227110 | 227110 |
| 5°  | 216101 | 215530 | 216101 |
| 10° | 186561 | 185984 | 185704 |
| 15° | 151411 | 147898 | 148487 |
| 20° | 116655 | 111541 | 113649 |
| 25° | 88609  | 82073  | 86120  |
| 30° | 65725  | 59878  | 63776  |
| 35° | 46443  | 43353  | 45749  |
| 40° | 31992  | 31992  | 31273  |
| 45° | 23504  | 24697  | 23504  |
| 50° | 20604  | 20604  | 20604  |
| 55° | 19637  | 19157  | 19637  |
| 60° | 20288  | 18600  | 20288  |
| 65° | 22006  | 18664  | 22006  |
| 70° | 26386  | 18933  | 26386  |
| 75° | 33737  | 20694  | 33737  |
| 80° | 42151  | 21125  | 40564  |
| 85° | 32407  | 19365  | 35569  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 80°

Luminance: 42151 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.2  | 12.2      |
| 10°-20°   | 231.0  | 24.8      |
| 20°-30°   | 206.3  | 22.2      |
| 30°-40°   | 135.3  | 14.6      |
| 40°-50°   | 78.7   | 8.5       |
| 50°-60°   | 58.4   | 6.3       |
| 60°-70°   | 49.4   | 5.3       |
| 70°-80°   | 40.8   | 4.4       |
| 80°-90°   | 17.0   | 1.8       |
| 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°    | 550.4  | 59.2      |
| 0°-40°    | 685.8  | 73.7      |
| 0°-60°    | 822.9  | 88.5      |
| 0°-90°    | 930.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 930.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1319 | 1319  | 1319 | 1319  | 1319 |      |
| 5°  | 1250 | 1248  | 1247 | 1248  | 1250 | 113  |
| 15° | 849  | 841   | 830  | 831   | 833  | 235  |
| 25° | 466  | 453   | 432  | 443   | 453  | 215  |
| 35° | 221  | 214   | 206  | 213   | 218  | 140  |
| 45° | 96   | 98    | 101  | 98    | 96   | 78   |
| 55° | 65   | 64    | 64   | 64    | 65   | 59   |
| 65° | 54   | 49    | 46   | 49    | 54   | 54   |
| 75° | 51   | 38    | 31   | 38    | 51   | 52   |
| 85° | 16   | 18    | 10   | 18    | 18   | 19   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1318.7 | 1318.7 | 1318.7 | 1318.7 | 1318.7 |
| 1°    | 1315.5 | 1317.1 | 1315.5 | 1317.1 | 1318.7 |
| 2°    | 1307.3 | 1308.9 | 1307.3 | 1307.3 | 1308.9 |
| 3°    | 1290.9 | 1292.6 | 1292.6 | 1292.6 | 1294.2 |
| 4°    | 1271.3 | 1272.9 | 1271.3 | 1272.9 | 1274.6 |
| 5°    | 1250.0 | 1248.4 | 1246.7 | 1248.4 | 1250.0 |
| 6°    | 1220.6 | 1218.9 | 1217.3 | 1218.9 | 1220.6 |
| 7°    | 1187.8 | 1186.2 | 1184.6 | 1184.6 | 1186.2 |
| 8°    | 1146.9 | 1148.6 | 1143.7 | 1146.9 | 1148.6 |
| 9°    | 1110.9 | 1107.7 | 1104.4 | 1104.4 | 1107.7 |
| 10°   | 1066.8 | 1063.5 | 1063.5 | 1061.9 | 1061.9 |
| 12.5° | 958.8  | 952.2  | 947.3  | 947.3  | 949.0  |
| 15°   | 849.2  | 841.0  | 829.5  | 831.2  | 832.8  |
| 17.5° | 739.5  | 729.7  | 715.0  | 718.3  | 721.5  |
| 20°   | 636.5  | 626.6  | 608.6  | 615.2  | 620.1  |
| 22.5° | 548.1  | 533.4  | 517.0  | 521.9  | 538.3  |
| 25°   | 466.3  | 453.2  | 431.9  | 443.4  | 453.2  |
| 27.5° | 394.3  | 379.6  | 361.6  | 373.0  | 382.9  |
| 30°   | 330.5  | 317.4  | 301.1  | 310.9  | 320.7  |
| 32.5° | 273.2  | 261.8  | 250.3  | 256.9  | 265.1  |
| 35°   | 220.9  | 214.3  | 206.2  | 212.7  | 217.6  |
| 37.5° | 178.3  | 175.1  | 171.8  | 175.1  | 173.4  |
| 40°   | 142.3  | 144.0  | 142.3  | 142.3  | 139.1  |
| 42.5° | 112.9  | 117.8  | 119.4  | 116.2  | 112.9  |
| 45°   | 96.5   | 98.2   | 101.4  | 98.2   | 96.5   |
| 47.5° | 85.1   | 85.1   | 86.7   | 85.1   | 83.4   |
| 50°   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   |
| 52.5° | 70.4   | 70.4   | 68.7   | 70.4   | 70.4   |
| 55°   | 65.4   | 63.8   | 63.8   | 63.8   | 65.4   |
| 57.5° | 62.2   | 60.5   | 58.9   | 60.5   | 62.2   |
| 60°   | 58.9   | 55.6   | 54.0   | 55.6   | 58.9   |
| 62.5° | 55.6   | 52.4   | 50.7   | 52.4   | 55.6   |
| 65°   | 54.0   | 49.1   | 45.8   | 49.1   | 54.0   |
| 67.5° | 52.4   | 45.8   | 42.5   | 45.8   | 54.0   |
| 70°   | 52.4   | 42.5   | 37.6   | 44.2   | 52.4   |
| 72.5° | 50.7   | 40.9   | 34.4   | 40.9   | 50.7   |
| 75°   | 50.7   | 37.6   | 31.1   | 37.6   | 50.7   |
| 77.5° | 47.4   | 34.4   | 26.2   | 34.4   | 47.4   |
| 80°   | 42.5   | 31.1   | 21.3   | 31.1   | 40.9   |
| 82.5° | 31.1   | 26.2   | 16.4   | 26.2   | 31.1   |
| 85°   | 16.4   | 18.0   | 9.8    | 18.0   | 18.0   |
| 87.5° | 1.6    | 6.5    | 3.3    | 9.8    | 8.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)