

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: P1311600

Luminaire Tested: P3SQAS20R209050D010 E3SQPHLP1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311600  
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: P3SQAS20R209050D010 E3SQPHLP1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3SQPHLP1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

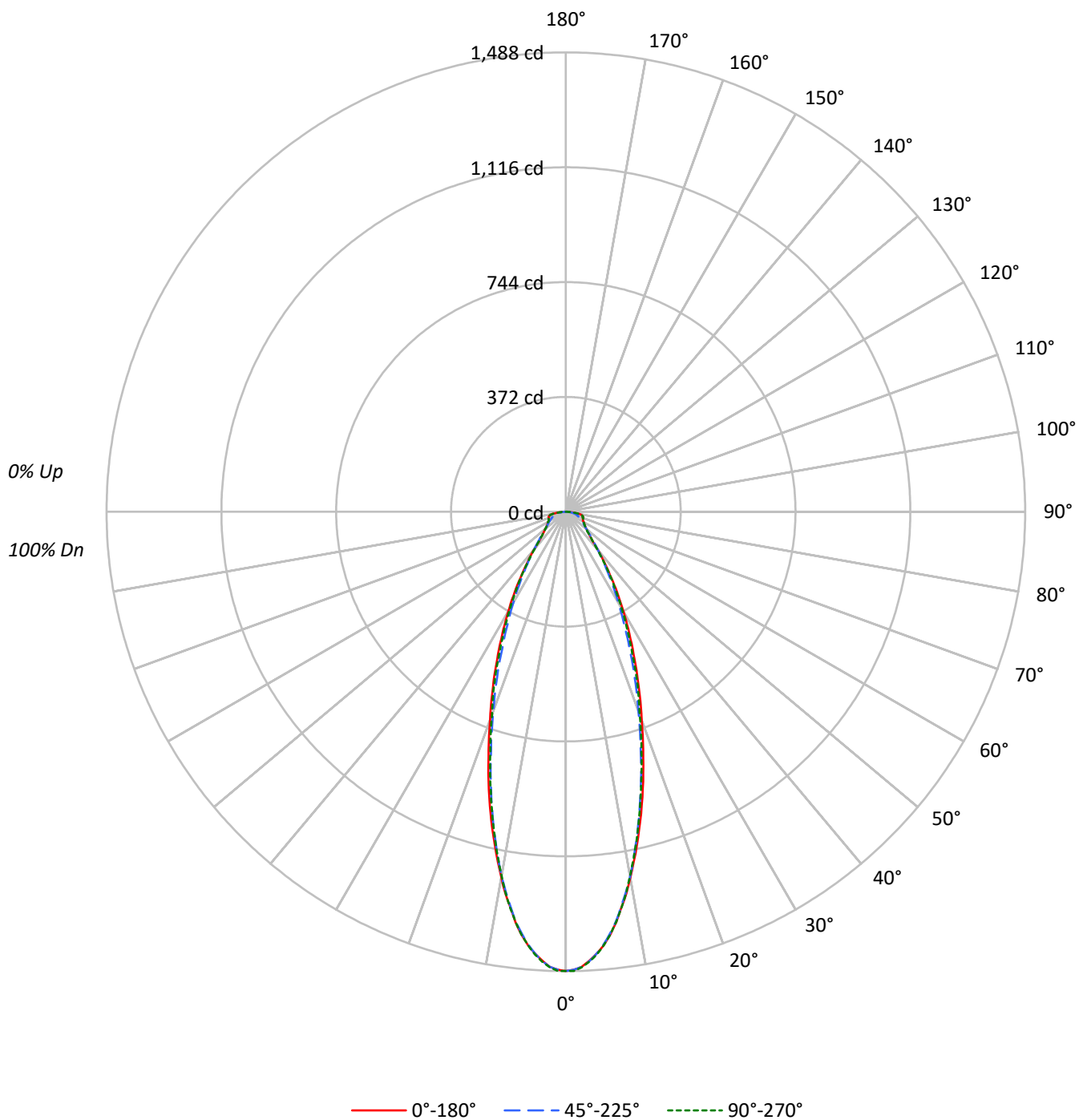
Lumens per Lamp: N/A  
Luminaire Lumens: 1049.0 lumens  
Efficiency: N/A  
Efficacy: 36.4 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.6 / 0.65  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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°  | 256181 | 256181 | 256181 |
| 5°  | 243762 | 243122 | 243762 |
| 10° | 210432 | 209785 | 209453 |
| 15° | 170774 | 166833 | 167493 |
| 20° | 131573 | 125819 | 128183 |
| 25° | 99954  | 92581  | 97142  |
| 30° | 74137  | 67535  | 71930  |
| 35° | 52372  | 48882  | 51615  |
| 40° | 36106  | 36106  | 35274  |
| 45° | 26524  | 27863  | 26524  |
| 50° | 23230  | 23230  | 23230  |
| 55° | 22159  | 21619  | 22159  |
| 60° | 22871  | 20977  | 22871  |
| 65° | 24818  | 21068  | 24818  |
| 70° | 29760  | 21350  | 29760  |
| 75° | 38062  | 23356  | 38062  |
| 80° | 47606  | 23803  | 45722  |
| 85° | 36557  | 21934  | 40113  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 80°

Luminance: 47606 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.6  | 12.2      |
| 10°-20°   | 260.6  | 24.8      |
| 20°-30°   | 232.7  | 22.2      |
| 30°-40°   | 152.7  | 14.6      |
| 40°-50°   | 88.8   | 8.5       |
| 50°-60°   | 65.9   | 6.3       |
| 60°-70°   | 55.7   | 5.3       |
| 70°-80°   | 46.0   | 4.4       |
| 80°-90°   | 19.2   | 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°    | 620.8  | 59.2      |
| 0°-40°    | 773.5  | 73.7      |
| 0°-60°    | 928.2  | 88.5      |
| 0°-90°    | 1049.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1049.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1488 | 1488  | 1488 | 1488  | 1488 |      |
| 5°  | 1410 | 1408  | 1406 | 1408  | 1410 | 128  |
| 15° | 958  | 949   | 936  | 938   | 939  | 265  |
| 25° | 526  | 511   | 487  | 500   | 511  | 242  |
| 35° | 249  | 242   | 232  | 240   | 246  | 158  |
| 45° | 109  | 111   | 114  | 111   | 109  | 88   |
| 55° | 74   | 72    | 72   | 72    | 74   | 67   |
| 65° | 61   | 55    | 52   | 55    | 61   | 61   |
| 75° | 57   | 42    | 35   | 42    | 57   | 59   |
| 85° | 18   | 20    | 11   | 20    | 20   | 22   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 |
| 1°    | 1483.8 | 1485.6 | 1483.8 | 1485.6 | 1487.5 |
| 2°    | 1474.6 | 1476.4 | 1474.6 | 1474.6 | 1476.4 |
| 3°    | 1456.1 | 1457.9 | 1457.9 | 1457.9 | 1459.8 |
| 4°    | 1434.0 | 1435.8 | 1434.0 | 1435.8 | 1437.6 |
| 5°    | 1410.0 | 1408.1 | 1406.3 | 1408.1 | 1410.0 |
| 6°    | 1376.7 | 1374.9 | 1373.1 | 1374.9 | 1376.7 |
| 7°    | 1339.8 | 1338.0 | 1336.1 | 1336.1 | 1338.0 |
| 8°    | 1293.7 | 1295.5 | 1290.0 | 1293.7 | 1295.5 |
| 9°    | 1253.1 | 1249.4 | 1245.7 | 1245.7 | 1249.4 |
| 10°   | 1203.3 | 1199.6 | 1199.6 | 1197.7 | 1197.7 |
| 12.5° | 1081.5 | 1074.1 | 1068.5 | 1068.5 | 1070.4 |
| 15°   | 957.8  | 948.6  | 935.7  | 937.5  | 939.4  |
| 17.5° | 834.2  | 823.1  | 806.5  | 810.2  | 813.9  |
| 20°   | 717.9  | 706.8  | 686.5  | 693.9  | 699.4  |
| 22.5° | 618.2  | 601.6  | 583.2  | 588.7  | 607.2  |
| 25°   | 526.0  | 511.2  | 487.2  | 500.1  | 511.2  |
| 27.5° | 444.8  | 428.2  | 407.9  | 420.8  | 431.8  |
| 30°   | 372.8  | 358.0  | 339.6  | 350.6  | 361.7  |
| 32.5° | 308.2  | 295.3  | 282.4  | 289.7  | 299.0  |
| 35°   | 249.1  | 241.8  | 232.5  | 239.9  | 245.5  |
| 37.5° | 201.2  | 197.5  | 193.8  | 197.5  | 195.6  |
| 40°   | 160.6  | 162.4  | 160.6  | 160.6  | 156.9  |
| 42.5° | 127.3  | 132.9  | 134.7  | 131.0  | 127.3  |
| 45°   | 108.9  | 110.7  | 114.4  | 110.7  | 108.9  |
| 47.5° | 96.0   | 96.0   | 97.8   | 96.0   | 94.1   |
| 50°   | 86.7   | 86.7   | 86.7   | 86.7   | 86.7   |
| 52.5° | 79.4   | 79.4   | 77.5   | 79.4   | 79.4   |
| 55°   | 73.8   | 72.0   | 72.0   | 72.0   | 73.8   |
| 57.5° | 70.1   | 68.3   | 66.4   | 68.3   | 70.1   |
| 60°   | 66.4   | 62.7   | 60.9   | 62.7   | 66.4   |
| 62.5° | 62.7   | 59.1   | 57.2   | 59.1   | 62.7   |
| 65°   | 60.9   | 55.4   | 51.7   | 55.4   | 60.9   |
| 67.5° | 59.1   | 51.7   | 48.0   | 51.7   | 60.9   |
| 70°   | 59.1   | 48.0   | 42.4   | 49.8   | 59.1   |
| 72.5° | 57.2   | 46.1   | 38.8   | 46.1   | 57.2   |
| 75°   | 57.2   | 42.4   | 35.1   | 42.4   | 57.2   |
| 77.5° | 53.5   | 38.8   | 29.5   | 38.8   | 53.5   |
| 80°   | 48.0   | 35.1   | 24.0   | 35.1   | 46.1   |
| 82.5° | 35.1   | 29.5   | 18.5   | 29.5   | 35.1   |
| 85°   | 18.5   | 20.3   | 11.1   | 20.3   | 20.3   |
| 87.5° | 1.8    | 7.4    | 3.7    | 11.1   | 9.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)