

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: P1310519

Luminaire Tested: P3SQAS20R209040D010 E3SQPHL1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310519  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R209040D010 E3SQPHL1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3SQPHL1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

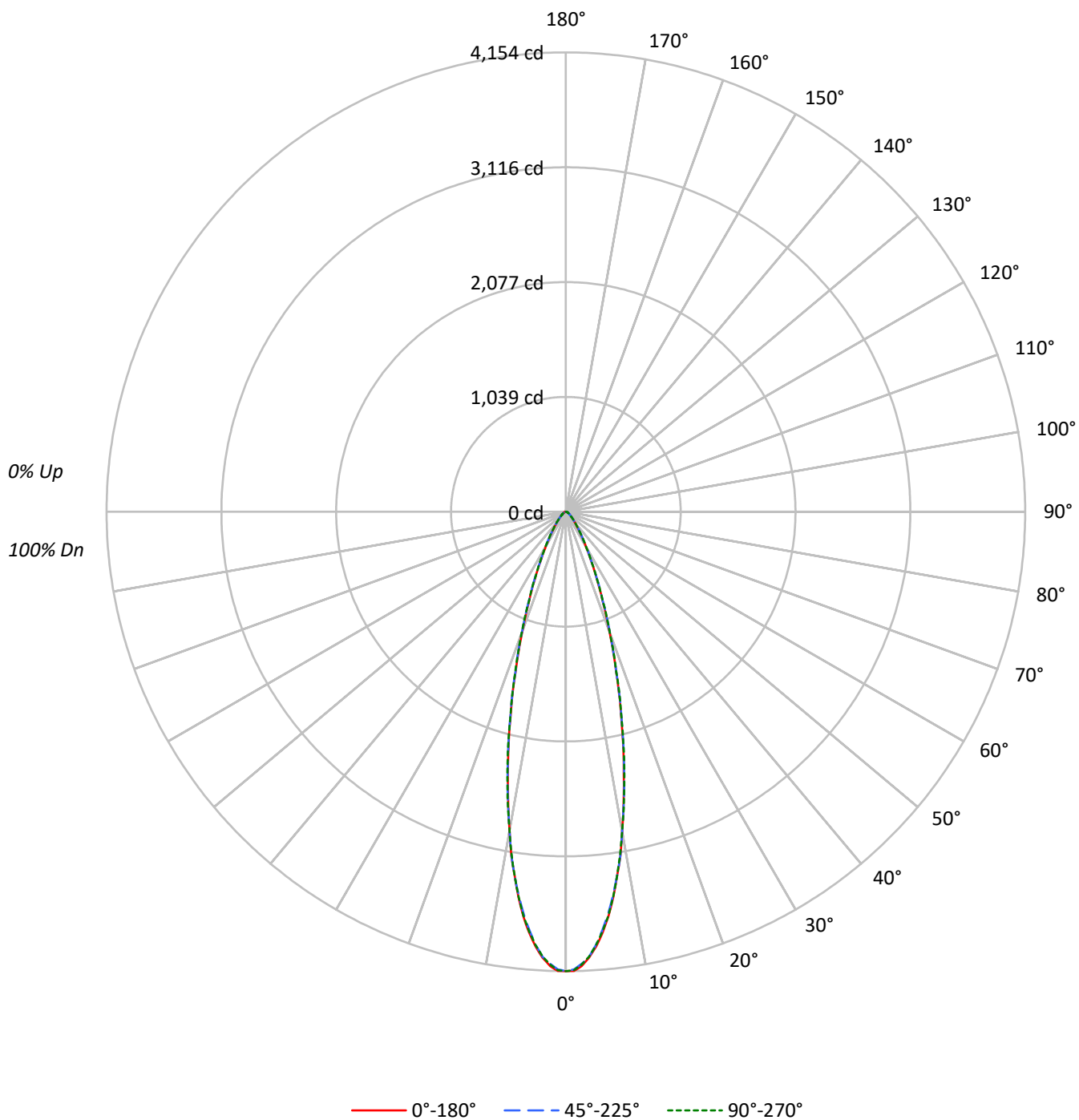
Lumens per Lamp: N/A  
Luminaire Lumens: 1460.0 lumens  
Efficiency: N/A  
Efficacy: 50.7 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  |  | 96  | 94  | 92  |  | 94  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  |  | 92  | 89  | 87  |  | 90  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  |  | 88  | 84  | 82  |  | 86  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 86  | 81  | 78  |  | 84  | 80  | 77  |  | 82  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  |  | 80  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 78  | 74  | 71  |  | 77  | 73  | 70  |  | 76  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 68  |  | 74  | 70  | 67  |  | 73  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  |  | 71  | 67  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 62  | 78  | 70  | 66  | 62  | 70  | 65  | 62  |  | 69  | 65  | 62  |  | 68  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 715499 | 715499 | 715499 |
| 5°  | 660092 | 656324 | 658519 |
| 10° | 512239 | 512869 | 512869 |
| 15° | 346219 | 347842 | 347842 |
| 20° | 210272 | 212929 | 213937 |
| 25° | 123346 | 125076 | 124733 |
| 30° | 71950  | 73401  | 73759  |
| 35° | 43962  | 45098  | 45098  |
| 40° | 28620  | 29024  | 29429  |
| 45° | 19923  | 20362  | 20824  |
| 50° | 14602  | 15111  | 15111  |
| 55° | 11470  | 12010  | 12010  |
| 60° | 10023  | 10023  | 10643  |
| 65° | 8884   | 8884   | 9617   |
| 70° | 8258   | 8258   | 8258   |
| 75° | 7253   | 7253   | 7253   |
| 80° | 5455   | 5455   | 7240   |
| 85° | 3557   | 3557   | 7114   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 20824 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 335.0  | 22.9      |
| 10°-20°   | 536.5  | 36.7      |
| 20°-30°   | 310.7  | 21.3      |
| 30°-40°   | 139.3  | 9.5       |
| 40°-50°   | 66.1   | 4.5       |
| 50°-60°   | 36.2   | 2.5       |
| 60°-70°   | 22.0   | 1.5       |
| 70°-80°   | 11.8   | 0.8       |
| 80°-90°   | 2.6    | 0.2       |
| 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°    | 1182.2 | 81.0      |
| 0°-40°    | 1321.5 | 90.5      |
| 0°-60°    | 1423.7 | 97.5      |
| 0°-90°    | 1460.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1460.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4154 | 4154  | 4154 | 4154  | 4154 |      |
| 5°  | 3818 | 3805  | 3796 | 3804  | 3809 | 336  |
| 15° | 1942 | 1942  | 1951 | 1942  | 1951 | 535  |
| 25° | 649  | 649   | 658  | 653   | 656  | 308  |
| 35° | 209  | 211   | 214  | 216   | 214  | 136  |
| 45° | 82   | 82    | 84   | 84    | 86   | 65   |
| 55° | 38   | 38    | 40   | 40    | 40   | 35   |
| 65° | 22   | 22    | 22   | 22    | 24   | 22   |
| 75° | 11   | 11    | 11   | 11    | 11   | 12   |
| 85° | 2    | 2     | 2    | 2     | 4    | 2    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4154.5 | 4154.5 | 4154.5 | 4154.5 | 4154.5 |
| 1°    | 4152.7 | 4141.8 | 4138.2 | 4134.5 | 4145.4 |
| 2°    | 4110.9 | 4098.2 | 4090.9 | 4094.5 | 4096.4 |
| 3°    | 4036.4 | 4029.1 | 4029.1 | 4023.6 | 4027.3 |
| 4°    | 3940.0 | 3925.4 | 3925.4 | 3927.3 | 3927.3 |
| 5°    | 3818.2 | 3805.4 | 3796.4 | 3803.6 | 3809.1 |
| 6°    | 3681.8 | 3665.4 | 3658.2 | 3660.0 | 3672.7 |
| 7°    | 3514.5 | 3492.7 | 3496.4 | 3505.4 | 3505.4 |
| 8°    | 3325.4 | 3323.6 | 3327.3 | 3323.6 | 3327.3 |
| 9°    | 3150.9 | 3125.4 | 3147.3 | 3129.1 | 3138.2 |
| 10°   | 2929.1 | 2927.3 | 2932.7 | 2938.2 | 2932.7 |
| 12.5° | 2423.6 | 2432.7 | 2436.4 | 2429.1 | 2445.4 |
| 15°   | 1941.8 | 1941.8 | 1950.9 | 1941.8 | 1950.9 |
| 17.5° | 1510.9 | 1509.1 | 1516.4 | 1509.1 | 1520.0 |
| 20°   | 1147.3 | 1160.0 | 1161.8 | 1161.8 | 1167.3 |
| 22.5° | 865.5  | 865.5  | 872.7  | 874.5  | 870.9  |
| 25°   | 649.1  | 649.1  | 658.2  | 652.7  | 656.4  |
| 27.5° | 480.0  | 483.6  | 490.9  | 494.5  | 494.5  |
| 30°   | 361.8  | 363.6  | 369.1  | 370.9  | 370.9  |
| 32.5° | 272.7  | 276.4  | 280.0  | 281.8  | 283.6  |
| 35°   | 209.1  | 210.9  | 214.5  | 216.4  | 214.5  |
| 37.5° | 160.0  | 161.8  | 165.5  | 167.3  | 167.3  |
| 40°   | 127.3  | 127.3  | 129.1  | 130.9  | 130.9  |
| 42.5° | 100.0  | 101.8  | 101.8  | 103.6  | 103.6  |
| 45°   | 81.8   | 81.8   | 83.6   | 83.6   | 85.5   |
| 47.5° | 65.5   | 65.5   | 67.3   | 69.1   | 69.1   |
| 50°   | 54.5   | 54.5   | 56.4   | 56.4   | 56.4   |
| 52.5° | 45.5   | 45.5   | 47.3   | 47.3   | 47.3   |
| 55°   | 38.2   | 38.2   | 40.0   | 40.0   | 40.0   |
| 57.5° | 32.7   | 32.7   | 34.5   | 34.5   | 34.5   |
| 60°   | 29.1   | 29.1   | 29.1   | 29.1   | 30.9   |
| 62.5° | 25.5   | 25.5   | 25.5   | 25.5   | 25.5   |
| 65°   | 21.8   | 21.8   | 21.8   | 21.8   | 23.6   |
| 67.5° | 18.2   | 18.2   | 18.2   | 18.2   | 20.0   |
| 70°   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   |
| 72.5° | 12.7   | 12.7   | 12.7   | 14.5   | 14.5   |
| 75°   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   |
| 77.5° | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    |
| 80°   | 5.5    | 5.5    | 5.5    | 7.3    | 7.3    |
| 82.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 85°   | 1.8    | 1.8    | 1.8    | 1.8    | 3.6    |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)