

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: P1310553

Luminaire Tested: P3SQAS20R309040D010 E3SQPHL1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R309040D010 E3SQPHL1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , E3SQPHL1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

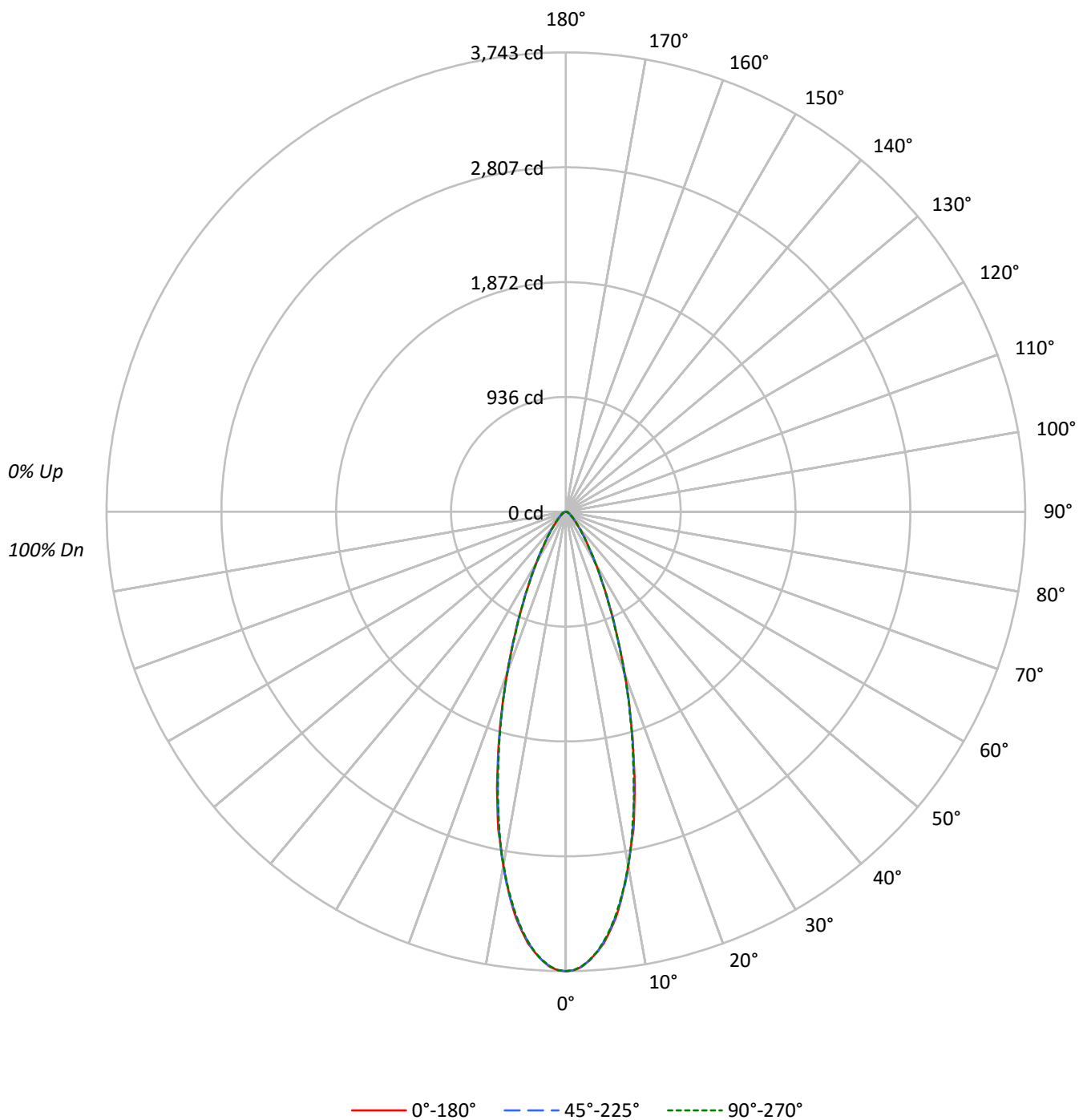
Lumens per Lamp: N/A  
Luminaire Lumens: 1644.0 lumens  
Efficiency: N/A  
Efficacy: 57.1 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.57  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1310553

CATALOG NUMBER: P3SQAS20R309040D010 E3SQPHL1MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1310553

CATALOG NUMBER: P3SQAS20R309040D010 E3SQPHL1MB

**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 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 |  | 101 | 100 | 98  |  | 98  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 99  | 96  | 93  |  | 96  | 93  | 91  |  | 93  |
| 3   | 103 | 97  | 93  | 89  | 101 | 96  | 92  | 88  | 93  | 90  | 87  |  | 91  | 88  | 85  |  | 89  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 84  | 81  |  | 87  | 83  | 80  |  | 85  |
| 5   | 95  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 80  | 76  |  | 82  | 79  | 76  |  | 81  |
| 6   | 90  | 82  | 77  | 73  | 89  | 82  | 76  | 73  | 80  | 76  | 72  |  | 79  | 75  | 72  |  | 77  |
| 7   | 87  | 78  | 73  | 69  | 86  | 78  | 72  | 69  | 76  | 72  | 68  |  | 75  | 71  | 68  |  | 74  |
| 8   | 83  | 75  | 69  | 66  | 82  | 74  | 69  | 65  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 9   | 80  | 71  | 66  | 62  | 79  | 71  | 66  | 62  | 70  | 65  | 62  |  | 69  | 65  | 62  |  | 68  |
| 10  | 77  | 68  | 63  | 60  | 76  | 68  | 63  | 60  | 67  | 63  | 59  |  | 66  | 62  | 59  |  | 66  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 644698 | 644698 | 644698 |
| 5°  | 610372 | 608799 | 608488 |
| 10° | 512764 | 512764 | 510858 |
| 15° | 382039 | 381076 | 378794 |
| 20° | 255688 | 254368 | 254698 |
| 25° | 157608 | 157266 | 157969 |
| 30° | 94779  | 94779  | 95137  |
| 35° | 58133  | 58133  | 58511  |
| 40° | 36803  | 36803  | 37613  |
| 45° | 25257  | 25696  | 25696  |
| 50° | 18514  | 18514  | 18514  |
| 55° | 14202  | 14743  | 14743  |
| 60° | 11918  | 11918  | 12538  |
| 65° | 10392  | 10392  | 10392  |
| 70° | 9165   | 10071  | 10071  |
| 75° | 8451   | 8451   | 8451   |
| 80° | 7240   | 7240   | 7240   |
| 85° | 3557   | 3557   | 3557   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 25696 cd/sqm

TEST NUMBER: P1310553

CATALOG NUMBER: P3SQAS20R309040D010 E3SQPHL1MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 317.3  | 19.3      |
| 10°-20°   | 585.9  | 35.6      |
| 20°-30°   | 389.5  | 23.7      |
| 30°-40°   | 180.1  | 11.0      |
| 40°-50°   | 83.6   | 5.1       |
| 50°-60°   | 44.7   | 2.7       |
| 60°-70°   | 26.1   | 1.6       |
| 70°-80°   | 13.8   | 0.8       |
| 80°-90°   | 3.0    | 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°    | 1292.8 | 78.6      |
| 0°-40°    | 1472.9 | 89.6      |
| 0°-60°    | 1601.1 | 97.4      |
| 0°-90°    | 1644.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1644.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3743 | 3743  | 3743 | 3743  | 3743 |      |
| 5°  | 3531 | 3523  | 3522 | 3531  | 3520 | 318  |
| 15° | 2143 | 2150  | 2137 | 2137  | 2124 | 588  |
| 25° | 829  | 828   | 828  | 828   | 831  | 390  |
| 35° | 276  | 275   | 276  | 278   | 278  | 179  |
| 45° | 104  | 104   | 106  | 106   | 106  | 83   |
| 55° | 47   | 49    | 49   | 49    | 49   | 44   |
| 65° | 26   | 26    | 26   | 26    | 26   | 25   |
| 75° | 13   | 13    | 13   | 13    | 13   | 13   |
| 85° | 2    | 2     | 2    | 2     | 2    | 3    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1310553

CATALOG NUMBER: P3SQAS20R309040D010 E3SQPHL1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3743.4 | 3743.4 | 3743.4 | 3743.4 | 3743.4 |
| 1°    | 3736.1 | 3732.5 | 3736.1 | 3741.6 | 3734.3 |
| 2°    | 3710.7 | 3707.0 | 3707.0 | 3714.3 | 3707.0 |
| 3°    | 3661.5 | 3665.2 | 3663.4 | 3670.6 | 3657.9 |
| 4°    | 3599.7 | 3597.9 | 3605.2 | 3608.8 | 3597.9 |
| 5°    | 3530.6 | 3523.3 | 3521.5 | 3530.6 | 3519.7 |
| 6°    | 3436.0 | 3430.5 | 3426.9 | 3437.8 | 3423.3 |
| 7°    | 3334.1 | 3330.5 | 3325.0 | 3328.7 | 3317.8 |
| 8°    | 3208.6 | 3206.8 | 3203.2 | 3206.8 | 3194.1 |
| 9°    | 3068.6 | 3068.6 | 3075.8 | 3074.0 | 3066.7 |
| 10°   | 2932.1 | 2935.8 | 2932.1 | 2935.8 | 2921.2 |
| 11°   | 2779.4 | 2779.4 | 2783.0 | 2781.2 | 2783.0 |
| 12°   | 2646.6 | 2632.0 | 2628.4 | 2624.7 | 2613.8 |
| 13°   | 2475.6 | 2464.7 | 2461.0 | 2464.7 | 2459.2 |
| 14°   | 2319.2 | 2311.9 | 2293.7 | 2297.3 | 2290.1 |
| 15°   | 2142.7 | 2150.0 | 2137.3 | 2137.3 | 2124.5 |
| 17.5° | 1751.6 | 1744.4 | 1748.0 | 1749.8 | 1744.4 |
| 20°   | 1395.1 | 1391.5 | 1387.9 | 1384.2 | 1389.7 |
| 22.5° | 1084.1 | 1085.9 | 1082.3 | 1078.6 | 1075.0 |
| 25°   | 829.4  | 827.6  | 827.6  | 827.6  | 831.3  |
| 27.5° | 629.4  | 629.4  | 629.4  | 631.2  | 631.2  |
| 30°   | 476.6  | 472.9  | 476.6  | 478.4  | 478.4  |
| 32.5° | 356.5  | 360.2  | 362.0  | 362.0  | 362.0  |
| 35°   | 276.5  | 274.7  | 276.5  | 278.3  | 278.3  |
| 37.5° | 211.0  | 211.0  | 212.8  | 212.8  | 214.6  |
| 40°   | 163.7  | 163.7  | 163.7  | 165.5  | 167.3  |
| 42.5° | 129.1  | 129.1  | 131.0  | 131.0  | 132.8  |
| 45°   | 103.7  | 103.7  | 105.5  | 105.5  | 105.5  |
| 47.5° | 83.7   | 83.7   | 85.5   | 85.5   | 85.5   |
| 50°   | 69.1   | 69.1   | 69.1   | 69.1   | 69.1   |
| 52.5° | 58.2   | 56.4   | 58.2   | 58.2   | 58.2   |
| 55°   | 47.3   | 49.1   | 49.1   | 49.1   | 49.1   |
| 57.5° | 40.0   | 41.8   | 41.8   | 41.8   | 41.8   |
| 60°   | 34.6   | 34.6   | 34.6   | 36.4   | 36.4   |
| 62.5° | 29.1   | 30.9   | 30.9   | 30.9   | 30.9   |
| 65°   | 25.5   | 25.5   | 25.5   | 25.5   | 25.5   |
| 67.5° | 21.8   | 21.8   | 21.8   | 21.8   | 23.6   |
| 70°   | 18.2   | 18.2   | 20.0   | 20.0   | 20.0   |
| 72.5° | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   |
| 75°   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   |
| 77.5° | 9.1    | 9.1    | 10.9   | 10.9   | 9.1    |
| 80°   | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    |
| 82.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 85°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



TEST NUMBER: P1310553

CATALOG NUMBER: P3SQAS20R309040D010 E3SQPHL1MB

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)