

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: P1307148

Luminaire Tested: P3SQAS20R159027D010 E3SQPH1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307148  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R159027D010 E3SQPH1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3SQPH1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

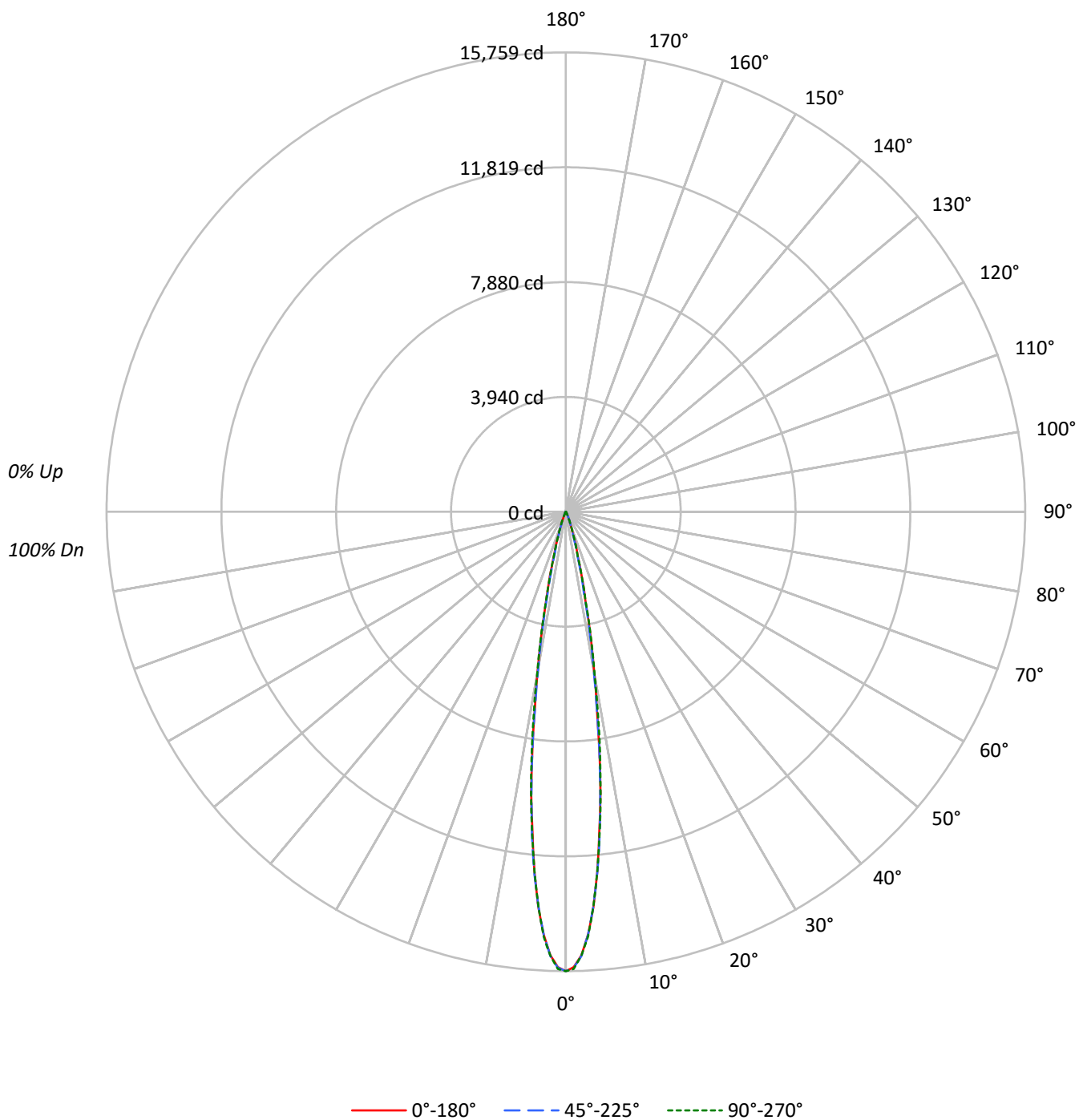
Lumens per Lamp: N/A  
Luminaire Lumens: 1578.0 lumens  
Efficiency: N/A  
Efficacy: 54.8 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1307148

CATALOG NUMBER: P3SQAS20R159027D010 E3SQPH1MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1307148

CATALOG NUMBER: P3SQAS20R159027D010 E3SQPH1MB

**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   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 |  | 104 | 104 | 103 |  | 101 |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 104 | 102 |  | 102 | 101 | 100 |  | 100 |
| 3   | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99  |  | 101 | 99  | 97  |  | 99  |
| 4   | 108 | 104 | 100 | 98  | 106 | 103 | 100 | 98  | 101 | 98  | 96  |  | 99  | 97  | 95  |  | 97  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 99  | 96  | 94  |  | 97  | 95  | 94  |  | 96  |
| 6   | 104 | 99  | 96  | 93  | 103 | 98  | 95  | 93  | 97  | 94  | 92  |  | 96  | 94  | 92  |  | 95  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  |  | 94  | 92  | 90  |  | 94  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  |  | 93  | 91  | 89  |  | 92  |
| 9   | 98  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  |  | 92  | 89  | 88  |  | 91  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 88  | 87  |  | 90  | 88  | 86  |  | 90  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2714125 | 2714125 | 2714125 |
| 5°  | 2140918 | 2146640 | 2138999 |
| 10° | 979482  | 953810  | 1000171 |
| 15° | 291232  | 259994  | 285312  |
| 20° | 86488   | 83885   | 90813   |
| 25° | 24589   | 31791   | 28485   |
| 30° | 8790    | 9406    | 8472    |
| 35° | 3322    | 2985    | 2985    |
| 40° | 1416    | 719     | 1057    |
| 45° | 779     | 390     | 779     |
| 50° | 429     | 0       | 429     |
| 55° | 480     | 0       | 480     |
| 60° | 0       | 0       | 0       |
| 65° | 0       | 0       | 0       |
| 70° | 0       | 0       | 0       |
| 75° | 0       | 0       | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 816 cd/sqm

TEST NUMBER: P1307148

CATALOG NUMBER: P3SQAS20R159027D010 E3SQPH1MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 952.2  | 60.3      |
| 10°-20°   | 528.6  | 33.5      |
| 20°-30°   | 84.1   | 5.3       |
| 30°-40°   | 11.0   | 0.7       |
| 40°-50°   | 1.7    | 0.1       |
| 50°-60°   | 0.4    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 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°    | 1565.0 | 99.2      |
| 0°-40°    | 1576.0 | 99.9      |
| 0°-60°    | 1578.0 | 100.0     |
| 0°-90°    | 1578.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1578.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 15759 | 15759 | 15759 | 15759 | 15759 |      |
| 5°  | 12384 | 12488 | 12417 | 12364 | 12373 | 950  |
| 15° | 1633  | 1612  | 1458  | 1549  | 1600  | 539  |
| 25° | 129   | 145   | 167   | 166   | 150   | 79   |
| 35° | 16    | 16    | 14    | 16    | 14    | 12   |
| 45° | 3     | 2     | 2     | 2     | 3     | 3    |
| 55° | 2     | 0     | 0     | 0     | 2     | 1    |
| 65° | 0     | 0     | 0     | 0     | 0     | 0    |
| 75° | 0     | 0     | 0     | 0     | 0     | 0    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |

TEST NUMBER: P1307148

CATALOG NUMBER: P3SQAS20R159027D010 E3SQPH1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15759.4 | 15759.4 | 15759.4 | 15759.4 | 15759.4 | 15759.4 | 15759.4 | 15759.4 | 15759.4 | 15759.4 | 15759.4 |
| 1°    | 15623.7 | 15641.1 | 15663.2 | 15642.6 | 15623.7 | 15641.1 | 15617.4 | 15620.5 | 15601.6 | 15642.6 | 15688.4 |
| 2°    | 15226.0 | 15248.1 | 15235.5 | 15207.1 | 15251.3 | 15254.4 | 15205.5 | 15181.8 | 15178.7 | 15219.7 | 15235.5 |
| 3°    | 14522.2 | 14572.7 | 14574.2 | 14564.8 | 14550.6 | 14522.2 | 14471.7 | 14504.8 | 14459.0 | 14430.6 | 14591.6 |
| 4°    | 13586.3 | 13630.5 | 13682.6 | 13647.9 | 13543.7 | 13553.2 | 13586.3 | 13474.3 | 13480.6 | 13545.3 | 13550.0 |
| 5°    | 12383.8 | 12517.9 | 12524.2 | 12475.3 | 12393.2 | 12416.9 | 12393.2 | 12361.7 | 12372.7 | 12413.7 | 12372.7 |
| 6°    | 10968.2 | 11119.7 | 11007.6 | 11114.9 | 11091.3 | 11121.2 | 11129.1 | 11096.0 | 11119.7 | 11094.4 | 11086.5 |
| 7°    | 9745.1  | 9629.9  | 9645.7  | 9601.5  | 9648.8  | 9680.4  | 9699.3  | 9642.5  | 9688.3  | 9760.9  | 9781.4  |
| 8°    | 8228.5  | 8195.3  | 8162.2  | 8241.1  | 8219.0  | 8256.9  | 8280.6  | 8343.7  | 8340.5  | 8362.6  | 8435.2  |
| 9°    | 6784.5  | 6833.4  | 6863.4  | 6793.9  | 6853.9  | 6737.1  | 6778.2  | 6947.0  | 6902.8  | 6947.0  | 7076.4  |
| 10°   | 5600.9  | 5640.3  | 5596.1  | 5594.5  | 5531.4  | 5454.1  | 5449.4  | 5512.5  | 5645.0  | 5749.2  | 5719.2  |
| 12.5° | 3090.0  | 3124.7  | 3129.5  | 3126.3  | 3012.7  | 2884.9  | 2908.5  | 2959.0  | 3041.1  | 3075.8  | 3132.6  |
| 15°   | 1633.4  | 1631.8  | 1649.2  | 1600.2  | 1540.3  | 1458.2  | 1464.5  | 1534.0  | 1595.5  | 1611.3  | 1600.2  |
| 17.5° | 838.0   | 841.2   | 853.8   | 841.2   | 778.0   | 785.9   | 803.3   | 811.2   | 847.5   | 861.7   | 853.8   |
| 20°   | 471.9   | 473.4   | 471.9   | 476.6   | 451.4   | 457.7   | 479.8   | 481.3   | 489.2   | 497.1   | 495.5   |
| 22.5° | 269.9   | 271.4   | 280.9   | 277.8   | 271.4   | 279.3   | 284.1   | 292.0   | 295.1   | 292.0   | 301.4   |
| 25°   | 129.4   | 131.0   | 131.0   | 149.9   | 159.4   | 167.3   | 170.4   | 167.3   | 164.1   | 151.5   | 149.9   |
| 27.5° | 74.2    | 74.2    | 77.3    | 78.9    | 82.1    | 96.3    | 94.7    | 78.9    | 66.3    | 66.3    | 67.9    |
| 30°   | 44.2    | 42.6    | 42.6    | 44.2    | 45.8    | 47.3    | 44.2    | 42.6    | 42.6    | 44.2    | 42.6    |
| 32.5° | 26.8    | 26.8    | 26.8    | 25.3    | 25.3    | 23.7    | 23.7    | 26.8    | 26.8    | 26.8    | 26.8    |
| 35°   | 15.8    | 15.8    | 15.8    | 15.8    | 14.2    | 14.2    | 14.2    | 15.8    | 15.8    | 14.2    | 14.2    |
| 37.5° | 9.5     | 9.5     | 9.5     | 7.9     | 7.9     | 6.3     | 7.9     | 7.9     | 7.9     | 7.9     | 7.9     |
| 40°   | 6.3     | 6.3     | 4.7     | 4.7     | 3.2     | 3.2     | 3.2     | 4.7     | 4.7     | 4.7     | 4.7     |
| 42.5° | 4.7     | 4.7     | 3.2     | 3.2     | 1.6     | 1.6     | 1.6     | 3.2     | 3.2     | 3.2     | 3.2     |
| 45°   | 3.2     | 3.2     | 3.2     | 1.6     | 1.6     | 1.6     | 1.6     | 1.6     | 1.6     | 3.2     | 3.2     |
| 47.5° | 3.2     | 3.2     | 1.6     | 1.6     | 0.0     | 0.0     | 0.0     | 1.6     | 1.6     | 1.6     | 1.6     |
| 50°   | 1.6     | 1.6     | 1.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.6     | 1.6     | 1.6     |
| 52.5° | 1.6     | 1.6     | 1.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.6     | 1.6     | 1.6     |
| 55°   | 1.6     | 1.6     | 1.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.6     | 1.6     |
| 57.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 60°   | 0.0     | 1.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 62.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 65°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 67.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 70°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 72.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 75°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)