

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: P1309102

Luminaire Tested: P3SQAS13R209035DE010 E3SQPHLP1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309102  
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: P3SQAS13R209035DE010 E3SQPHLP1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3SQPHLP1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

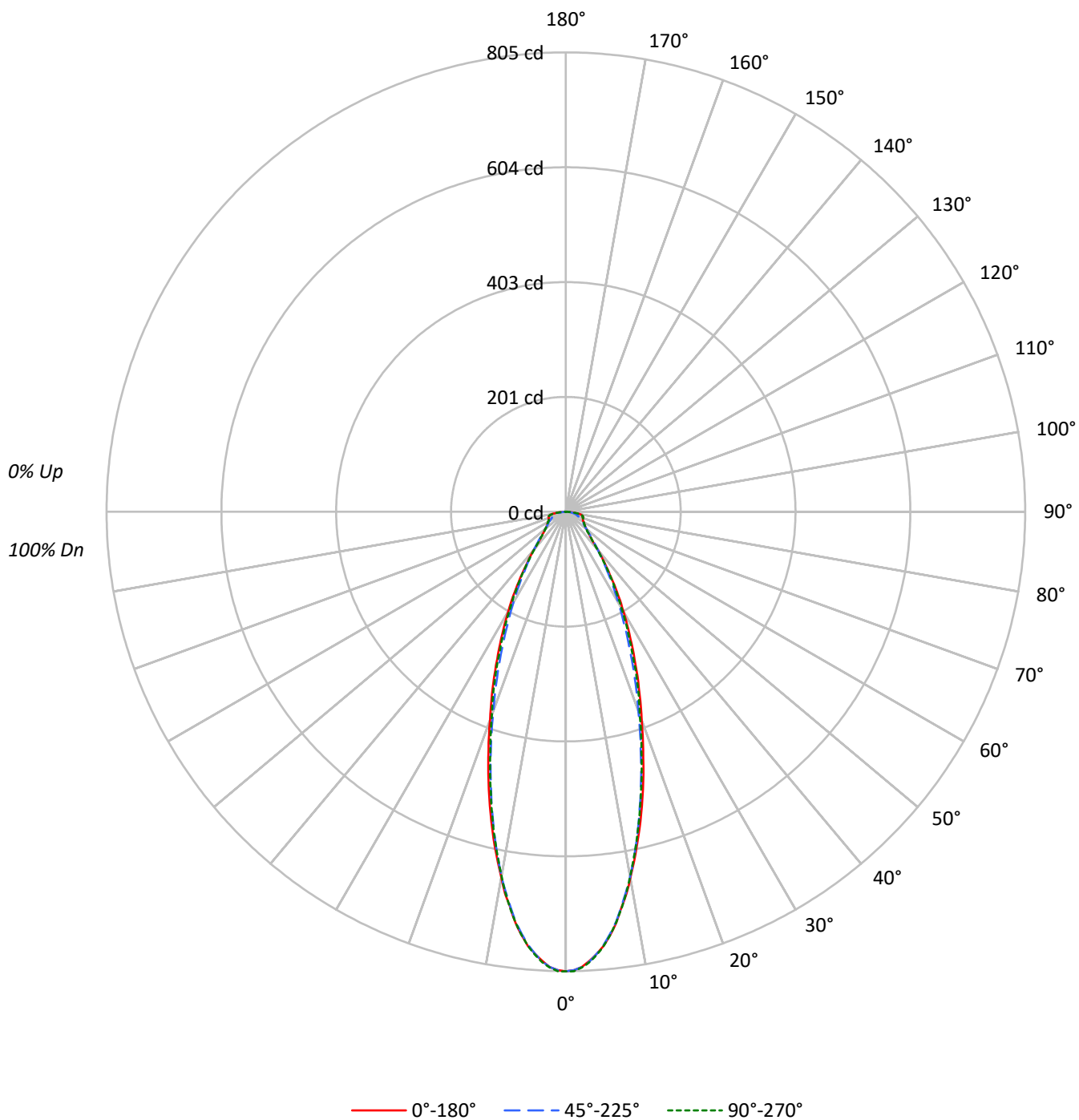
Lumens per Lamp: N/A  
Luminaire Lumens: 568.1 lumens  
Efficiency: N/A  
Efficacy: 38.9 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.6 / 0.65  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: P1309102

CATALOG NUMBER: P3SQAS13R209035DE010 E3SQPHLP1MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1309102

CATALOG NUMBER: P3SQAS13R209035DE010 E3SQPHLP1MW

**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°  | 138708 | 138708 | 138708 |
| 5°  | 131994 | 131649 | 131994 |
| 10° | 113934 | 113584 | 113409 |
| 15° | 92465  | 90326  | 90682  |
| 20° | 71239  | 68124  | 69406  |
| 25° | 54120  | 50129  | 52599  |
| 30° | 40151  | 36571  | 38958  |
| 35° | 28362  | 26470  | 27942  |
| 40° | 19537  | 19537  | 19087  |
| 45° | 14370  | 15101  | 14370  |
| 50° | 12593  | 12593  | 12593  |
| 55° | 12010  | 11710  | 12010  |
| 60° | 12400  | 11367  | 12400  |
| 65° | 13448  | 11410  | 13448  |
| 70° | 16113  | 11582  | 16113  |
| 75° | 20628  | 12643  | 20628  |
| 80° | 25787  | 12893  | 24795  |
| 85° | 19760  | 11856  | 21736  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 80°

Luminance: 25787 cd/sqm

TEST NUMBER: P1309102

CATALOG NUMBER: P3SQAS13R209035DE010 E3SQPHLP1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.1   | 12.2      |
| 10°-20°   | 141.1  | 24.8      |
| 20°-30°   | 126.0  | 22.2      |
| 30°-40°   | 82.7   | 14.6      |
| 40°-50°   | 48.1   | 8.5       |
| 50°-60°   | 35.7   | 6.3       |
| 60°-70°   | 30.2   | 5.3       |
| 70°-80°   | 24.9   | 4.4       |
| 80°-90°   | 10.4   | 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°    | 336.2  | 59.2      |
| 0°-40°    | 418.8  | 73.7      |
| 0°-60°    | 502.6  | 88.5      |
| 0°-90°    | 568.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 568.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 805 | 805   | 805 | 805   | 805 |      |
| 5°  | 764 | 762   | 762 | 762   | 764 | 69   |
| 15° | 519 | 514   | 507 | 508   | 509 | 143  |
| 25° | 285 | 277   | 264 | 271   | 277 | 131  |
| 35° | 135 | 131   | 126 | 130   | 133 | 86   |
| 45° | 59  | 60    | 62  | 60    | 59  | 47   |
| 55° | 40  | 39    | 39  | 39    | 40  | 36   |
| 65° | 33  | 30    | 28  | 30    | 33  | 33   |
| 75° | 31  | 23    | 19  | 23    | 31  | 32   |
| 85° | 10  | 11    | 6   | 11    | 11  | 12   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

TEST NUMBER: P1309102

CATALOG NUMBER: P3SQAS13R209035DE010 E3SQPHLP1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 805.4 | 805.4 | 805.4 | 805.4 | 805.4 |
| 1°    | 803.4 | 804.4 | 803.4 | 804.4 | 805.4 |
| 2°    | 798.4 | 799.4 | 798.4 | 798.4 | 799.4 |
| 3°    | 788.4 | 789.4 | 789.4 | 789.4 | 790.4 |
| 4°    | 776.4 | 777.4 | 776.4 | 777.4 | 778.4 |
| 5°    | 763.5 | 762.5 | 761.5 | 762.5 | 763.5 |
| 6°    | 745.5 | 744.5 | 743.5 | 744.5 | 745.5 |
| 7°    | 725.5 | 724.5 | 723.5 | 723.5 | 724.5 |
| 8°    | 700.5 | 701.5 | 698.5 | 700.5 | 701.5 |
| 9°    | 678.5 | 676.5 | 674.5 | 674.5 | 676.5 |
| 10°   | 651.5 | 649.5 | 649.5 | 648.5 | 648.5 |
| 12.5° | 585.6 | 581.6 | 578.6 | 578.6 | 579.6 |
| 15°   | 518.6 | 513.6 | 506.6 | 507.6 | 508.6 |
| 17.5° | 451.7 | 445.7 | 436.7 | 438.7 | 440.7 |
| 20°   | 388.7 | 382.7 | 371.7 | 375.7 | 378.7 |
| 22.5° | 334.8 | 325.8 | 315.8 | 318.8 | 328.8 |
| 25°   | 284.8 | 276.8 | 263.8 | 270.8 | 276.8 |
| 27.5° | 240.8 | 231.8 | 220.8 | 227.8 | 233.8 |
| 30°   | 201.9 | 193.9 | 183.9 | 189.9 | 195.9 |
| 32.5° | 166.9 | 159.9 | 152.9 | 156.9 | 161.9 |
| 35°   | 134.9 | 130.9 | 125.9 | 129.9 | 132.9 |
| 37.5° | 108.9 | 106.9 | 104.9 | 106.9 | 105.9 |
| 40°   | 86.9  | 87.9  | 86.9  | 86.9  | 84.9  |
| 42.5° | 69.0  | 71.9  | 72.9  | 70.9  | 69.0  |
| 45°   | 59.0  | 60.0  | 62.0  | 60.0  | 59.0  |
| 47.5° | 52.0  | 52.0  | 53.0  | 52.0  | 51.0  |
| 50°   | 47.0  | 47.0  | 47.0  | 47.0  | 47.0  |
| 52.5° | 43.0  | 43.0  | 42.0  | 43.0  | 43.0  |
| 55°   | 40.0  | 39.0  | 39.0  | 39.0  | 40.0  |
| 57.5° | 38.0  | 37.0  | 36.0  | 37.0  | 38.0  |
| 60°   | 36.0  | 34.0  | 33.0  | 34.0  | 36.0  |
| 62.5° | 34.0  | 32.0  | 31.0  | 32.0  | 34.0  |
| 65°   | 33.0  | 30.0  | 28.0  | 30.0  | 33.0  |
| 67.5° | 32.0  | 28.0  | 26.0  | 28.0  | 33.0  |
| 70°   | 32.0  | 26.0  | 23.0  | 27.0  | 32.0  |
| 72.5° | 31.0  | 25.0  | 21.0  | 25.0  | 31.0  |
| 75°   | 31.0  | 23.0  | 19.0  | 23.0  | 31.0  |
| 77.5° | 29.0  | 21.0  | 16.0  | 21.0  | 29.0  |
| 80°   | 26.0  | 19.0  | 13.0  | 19.0  | 25.0  |
| 82.5° | 19.0  | 16.0  | 10.0  | 16.0  | 19.0  |
| 85°   | 10.0  | 11.0  | 6.0   | 11.0  | 11.0  |
| 87.5° | 1.0   | 4.0   | 2.0   | 6.0   | 5.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)