

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: P1316364

Luminaire Tested: P3SQAS17R209827DE010 E3SQPHLP1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316364  
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: P3SQAS17R209827DE010 E3SQPHLP1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3SQPHLP1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

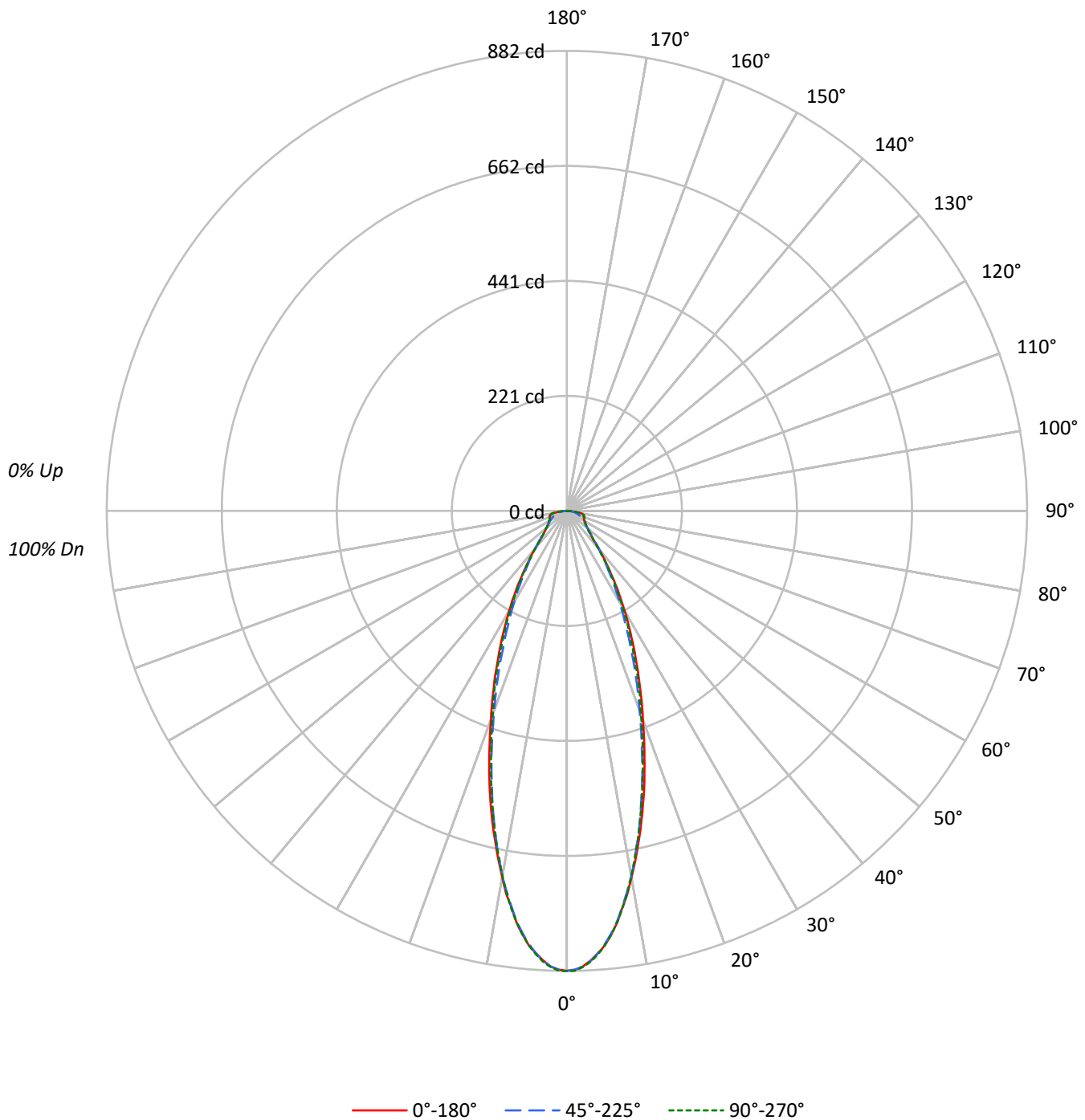
Lumens per Lamp: N/A  
Luminaire Lumens: 622.0 lumens  
Efficiency: N/A  
Efficacy: 30.5 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.6 / 0.65  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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°  | 151900 | 151900 | 151900 |
| 5°  | 144528 | 144148 | 144528 |
| 10° | 124776 | 124392 | 124199 |
| 15° | 101255 | 98920  | 99312  |
| 20° | 78020  | 74611  | 76004  |
| 25° | 59269  | 54899  | 57597  |
| 30° | 43949  | 40032  | 42657  |
| 35° | 31053  | 28993  | 30591  |
| 40° | 21403  | 21403  | 20908  |
| 45° | 15734  | 16513  | 15734  |
| 50° | 13772  | 13772  | 13772  |
| 55° | 13151  | 12821  | 13151  |
| 60° | 13571  | 12434  | 13571  |
| 65° | 14711  | 12470  | 14711  |
| 70° | 17624  | 12689  | 17624  |
| 75° | 22558  | 13841  | 22558  |
| 80° | 28266  | 14083  | 27175  |
| 85° | 21539  | 13042  | 23712  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 80°

Luminance: 28266 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.7   | 12.2      |
| 10°-20°   | 154.5  | 24.8      |
| 20°-30°   | 138.0  | 22.2      |
| 30°-40°   | 90.5   | 14.6      |
| 40°-50°   | 52.6   | 8.5       |
| 50°-60°   | 39.1   | 6.3       |
| 60°-70°   | 33.0   | 5.3       |
| 70°-80°   | 27.3   | 4.4       |
| 80°-90°   | 11.4   | 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°    | 368.1  | 59.2      |
| 0°-40°    | 458.7  | 73.7      |
| 0°-60°    | 550.4  | 88.5      |
| 0°-90°    | 622.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 622.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 882 | 882   | 882 | 882   | 882 |      |
| 5°  | 836 | 835   | 834 | 835   | 836 | 76   |
| 15° | 568 | 562   | 555 | 556   | 557 | 157  |
| 25° | 312 | 303   | 289 | 297   | 303 | 144  |
| 35° | 148 | 143   | 138 | 142   | 146 | 94   |
| 45° | 65  | 66    | 68  | 66    | 65  | 52   |
| 55° | 44  | 43    | 43  | 43    | 44  | 40   |
| 65° | 36  | 33    | 31  | 33    | 36  | 36   |
| 75° | 34  | 25    | 21  | 25    | 34  | 35   |
| 85° | 11  | 12    | 7   | 12    | 12  | 13   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 882.0 | 882.0 | 882.0 | 882.0 | 882.0 |
| 1°    | 879.8 | 880.9 | 879.8 | 880.9 | 882.0 |
| 2°    | 874.3 | 875.4 | 874.3 | 874.3 | 875.4 |
| 3°    | 863.4 | 864.5 | 864.5 | 864.5 | 865.6 |
| 4°    | 850.3 | 851.4 | 850.3 | 851.4 | 852.4 |
| 5°    | 836.0 | 834.9 | 833.8 | 834.9 | 836.0 |
| 6°    | 816.3 | 815.2 | 814.1 | 815.2 | 816.3 |
| 7°    | 794.4 | 793.4 | 792.3 | 792.3 | 793.4 |
| 8°    | 767.1 | 768.2 | 764.9 | 767.1 | 768.2 |
| 9°    | 743.0 | 740.8 | 738.6 | 738.6 | 740.8 |
| 10°   | 713.5 | 711.3 | 711.3 | 710.2 | 710.2 |
| 12.5° | 641.2 | 636.9 | 633.6 | 633.6 | 634.7 |
| 15°   | 567.9 | 562.5 | 554.8 | 555.9 | 557.0 |
| 17.5° | 494.6 | 488.1 | 478.2 | 480.4 | 482.6 |
| 20°   | 425.7 | 419.1 | 407.1 | 411.5 | 414.7 |
| 22.5° | 366.6 | 356.7 | 345.8 | 349.1 | 360.0 |
| 25°   | 311.9 | 303.1 | 288.9 | 296.6 | 303.1 |
| 27.5° | 263.7 | 253.9 | 241.8 | 249.5 | 256.1 |
| 30°   | 221.0 | 212.3 | 201.3 | 207.9 | 214.5 |
| 32.5° | 182.7 | 175.1 | 167.4 | 171.8 | 177.3 |
| 35°   | 147.7 | 143.4 | 137.9 | 142.3 | 145.5 |
| 37.5° | 119.3 | 117.1 | 114.9 | 117.1 | 116.0 |
| 40°   | 95.2  | 96.3  | 95.2  | 95.2  | 93.0  |
| 42.5° | 75.5  | 78.8  | 79.9  | 77.7  | 75.5  |
| 45°   | 64.6  | 65.7  | 67.8  | 65.7  | 64.6  |
| 47.5° | 56.9  | 56.9  | 58.0  | 56.9  | 55.8  |
| 50°   | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  |
| 52.5° | 47.1  | 47.1  | 46.0  | 47.1  | 47.1  |
| 55°   | 43.8  | 42.7  | 42.7  | 42.7  | 43.8  |
| 57.5° | 41.6  | 40.5  | 39.4  | 40.5  | 41.6  |
| 60°   | 39.4  | 37.2  | 36.1  | 37.2  | 39.4  |
| 62.5° | 37.2  | 35.0  | 33.9  | 35.0  | 37.2  |
| 65°   | 36.1  | 32.8  | 30.6  | 32.8  | 36.1  |
| 67.5° | 35.0  | 30.6  | 28.5  | 30.6  | 36.1  |
| 70°   | 35.0  | 28.5  | 25.2  | 29.5  | 35.0  |
| 72.5° | 33.9  | 27.4  | 23.0  | 27.4  | 33.9  |
| 75°   | 33.9  | 25.2  | 20.8  | 25.2  | 33.9  |
| 77.5° | 31.7  | 23.0  | 17.5  | 23.0  | 31.7  |
| 80°   | 28.5  | 20.8  | 14.2  | 20.8  | 27.4  |
| 82.5° | 20.8  | 17.5  | 10.9  | 17.5  | 20.8  |
| 85°   | 10.9  | 12.0  | 6.6   | 12.0  | 12.0  |
| 87.5° | 1.1   | 4.4   | 2.2   | 6.6   | 5.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)