

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: P1312560

Luminaire Tested: P3SQAS17R209727DE010 E3SQPHLD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R209727DE010 E3SQPHLD1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQPHLD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

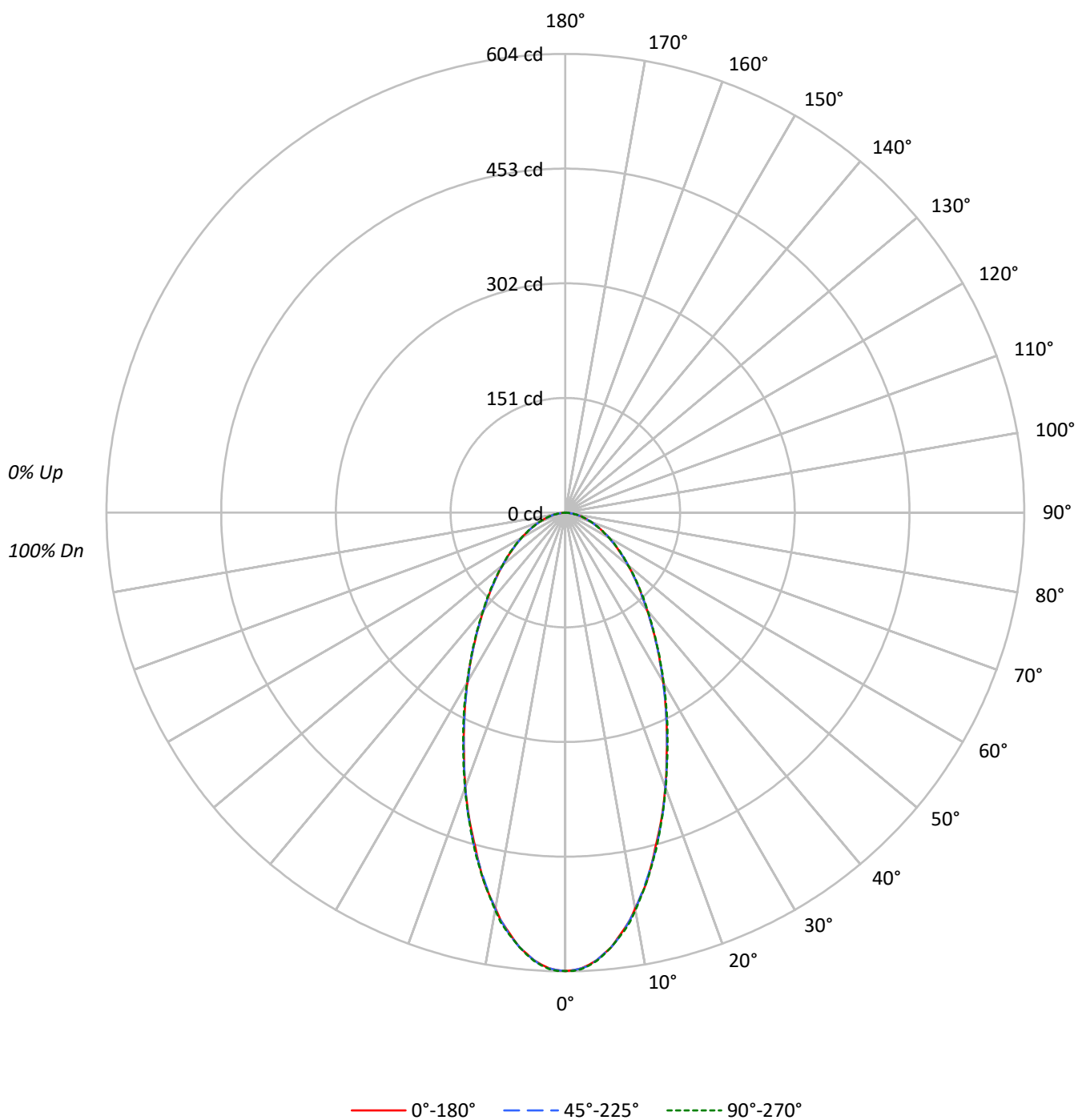
Lumens per Lamp: N/A  
Luminaire Lumens: 722.0 lumens  
Efficiency: N/A  
Efficacy: 34.1 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.86  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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 | 107 | 104 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  |  | 97  | 95  | 93  |  | 93  |
| 2   | 103 | 96  | 91  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 83  |  | 88  | 84  | 81  |  | 85  |
| 3   | 96  | 87  | 80  | 75  | 93  | 85  | 79  | 74  | 82  | 77  | 73  |  | 80  | 75  | 72  |  | 77  |
| 4   | 89  | 79  | 71  | 66  | 87  | 78  | 71  | 65  | 75  | 69  | 65  |  | 73  | 68  | 64  |  | 71  |
| 5   | 83  | 72  | 64  | 59  | 81  | 71  | 64  | 58  | 69  | 63  | 58  |  | 67  | 62  | 57  |  | 65  |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  |  | 62  | 56  | 52  |  | 61  |
| 7   | 73  | 61  | 54  | 48  | 71  | 60  | 53  | 48  | 59  | 53  | 48  |  | 58  | 52  | 48  |  | 56  |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  |  | 54  | 48  | 44  |  | 53  |
| 9   | 65  | 53  | 46  | 41  | 63  | 52  | 46  | 41  | 51  | 45  | 41  |  | 50  | 45  | 40  |  | 49  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  |  | 47  | 42  | 38  |  | 46  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 103954 | 103954 | 103954 |
| 5°  | 100807 | 100807 | 100997 |
| 10° | 92564  | 92739  | 92931  |
| 15° | 81482  | 81874  | 82071  |
| 20° | 70524  | 70524  | 70726  |
| 25° | 60010  | 60010  | 60428  |
| 30° | 51228  | 51009  | 51447  |
| 35° | 43731  | 43731  | 43962  |
| 40° | 37568  | 37568  | 37815  |
| 45° | 32807  | 32807  | 33075  |
| 50° | 28883  | 28883  | 28883  |
| 55° | 25582  | 25582  | 25882  |
| 60° | 23009  | 23009  | 23009  |
| 65° | 20661  | 20661  | 20661  |
| 70° | 18430  | 18430  | 18430  |
| 75° | 16502  | 15770  | 16502  |
| 80° | 13885  | 13885  | 13885  |
| 85° | 8497   | 8497   | 10671  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 33075 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.0   | 7.5       |
| 10°-20°   | 127.8  | 17.7      |
| 20°-30°   | 145.5  | 20.2      |
| 30°-40°   | 130.7  | 18.1      |
| 40°-50°   | 104.7  | 14.5      |
| 50°-60°   | 76.9   | 10.7      |
| 60°-70°   | 50.3   | 7.0       |
| 70°-80°   | 26.1   | 3.6       |
| 80°-90°   | 6.0    | 0.8       |
| 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°    | 327.3  | 45.3      |
| 0°-40°    | 458.0  | 63.4      |
| 0°-60°    | 639.6  | 88.6      |
| 0°-90°    | 722.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 722.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 604 | 604   | 604 | 604   | 604 |      |
| 5°  | 583 | 583   | 583 | 583   | 584 | 54   |
| 15° | 457 | 457   | 459 | 459   | 460 | 128  |
| 25° | 316 | 316   | 316 | 317   | 318 | 145  |
| 35° | 208 | 208   | 208 | 208   | 209 | 131  |
| 45° | 135 | 135   | 135 | 135   | 136 | 104  |
| 55° | 85  | 85    | 85  | 85    | 86  | 77   |
| 65° | 51  | 50    | 51  | 51    | 51  | 50   |
| 75° | 25  | 24    | 24  | 25    | 25  | 26   |
| 85° | 4   | 4     | 4   | 5     | 5   | 6    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 603.6 | 603.6 | 603.6 | 603.6 | 603.6 |
| 1°    | 602.5 | 601.5 | 602.5 | 602.5 | 603.6 |
| 2°    | 600.4 | 600.4 | 600.4 | 599.3 | 601.5 |
| 3°    | 596.1 | 596.1 | 597.2 | 596.1 | 597.2 |
| 4°    | 590.7 | 590.7 | 590.7 | 589.6 | 591.8 |
| 5°    | 583.1 | 583.1 | 583.1 | 583.1 | 584.2 |
| 6°    | 575.6 | 574.5 | 575.6 | 574.5 | 575.6 |
| 7°    | 564.8 | 564.8 | 565.9 | 564.8 | 565.9 |
| 8°    | 554.0 | 553.0 | 555.1 | 554.0 | 556.2 |
| 9°    | 543.3 | 542.2 | 543.3 | 542.2 | 545.4 |
| 10°   | 529.3 | 530.3 | 530.3 | 530.3 | 531.4 |
| 12.5° | 496.9 | 494.8 | 494.8 | 494.8 | 496.9 |
| 15°   | 457.0 | 457.0 | 459.2 | 459.2 | 460.3 |
| 17.5° | 421.5 | 420.4 | 422.5 | 422.5 | 422.5 |
| 20°   | 384.8 | 383.7 | 384.8 | 384.8 | 385.9 |
| 22.5° | 348.2 | 349.2 | 349.2 | 349.2 | 350.3 |
| 25°   | 315.8 | 315.8 | 315.8 | 316.9 | 318.0 |
| 27.5° | 285.6 | 284.6 | 285.6 | 286.7 | 287.8 |
| 30°   | 257.6 | 256.5 | 256.5 | 257.6 | 258.7 |
| 32.5° | 231.7 | 230.7 | 231.7 | 231.7 | 232.8 |
| 35°   | 208.0 | 208.0 | 208.0 | 208.0 | 209.1 |
| 37.5° | 186.5 | 186.5 | 186.5 | 187.6 | 187.6 |
| 40°   | 167.1 | 167.1 | 167.1 | 168.2 | 168.2 |
| 42.5° | 149.8 | 149.8 | 149.8 | 150.9 | 152.0 |
| 45°   | 134.7 | 134.7 | 134.7 | 134.7 | 135.8 |
| 47.5° | 120.7 | 120.7 | 120.7 | 121.8 | 121.8 |
| 50°   | 107.8 | 106.7 | 107.8 | 108.9 | 107.8 |
| 52.5° | 95.9  | 95.9  | 95.9  | 95.9  | 97.0  |
| 55°   | 85.2  | 85.2  | 85.2  | 85.2  | 86.2  |
| 57.5° | 75.5  | 75.5  | 75.5  | 76.5  | 76.5  |
| 60°   | 66.8  | 66.8  | 66.8  | 66.8  | 66.8  |
| 62.5° | 58.2  | 58.2  | 58.2  | 58.2  | 58.2  |
| 65°   | 50.7  | 49.6  | 50.7  | 50.7  | 50.7  |
| 67.5° | 43.1  | 43.1  | 43.1  | 43.1  | 43.1  |
| 70°   | 36.6  | 36.6  | 36.6  | 36.6  | 36.6  |
| 72.5° | 30.2  | 30.2  | 30.2  | 30.2  | 30.2  |
| 75°   | 24.8  | 23.7  | 23.7  | 24.8  | 24.8  |
| 77.5° | 19.4  | 18.3  | 19.4  | 19.4  | 19.4  |
| 80°   | 14.0  | 14.0  | 14.0  | 14.0  | 14.0  |
| 82.5° | 8.6   | 8.6   | 8.6   | 9.7   | 9.7   |
| 85°   | 4.3   | 4.3   | 4.3   | 5.4   | 5.4   |
| 87.5° | 1.1   | 1.1   | 1.1   | 2.2   | 2.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)