

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: P1310591

Luminaire Tested: P3SQAS20R459040D010 E3SQCD1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R459040D010 E3SQCD1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3SQCD1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

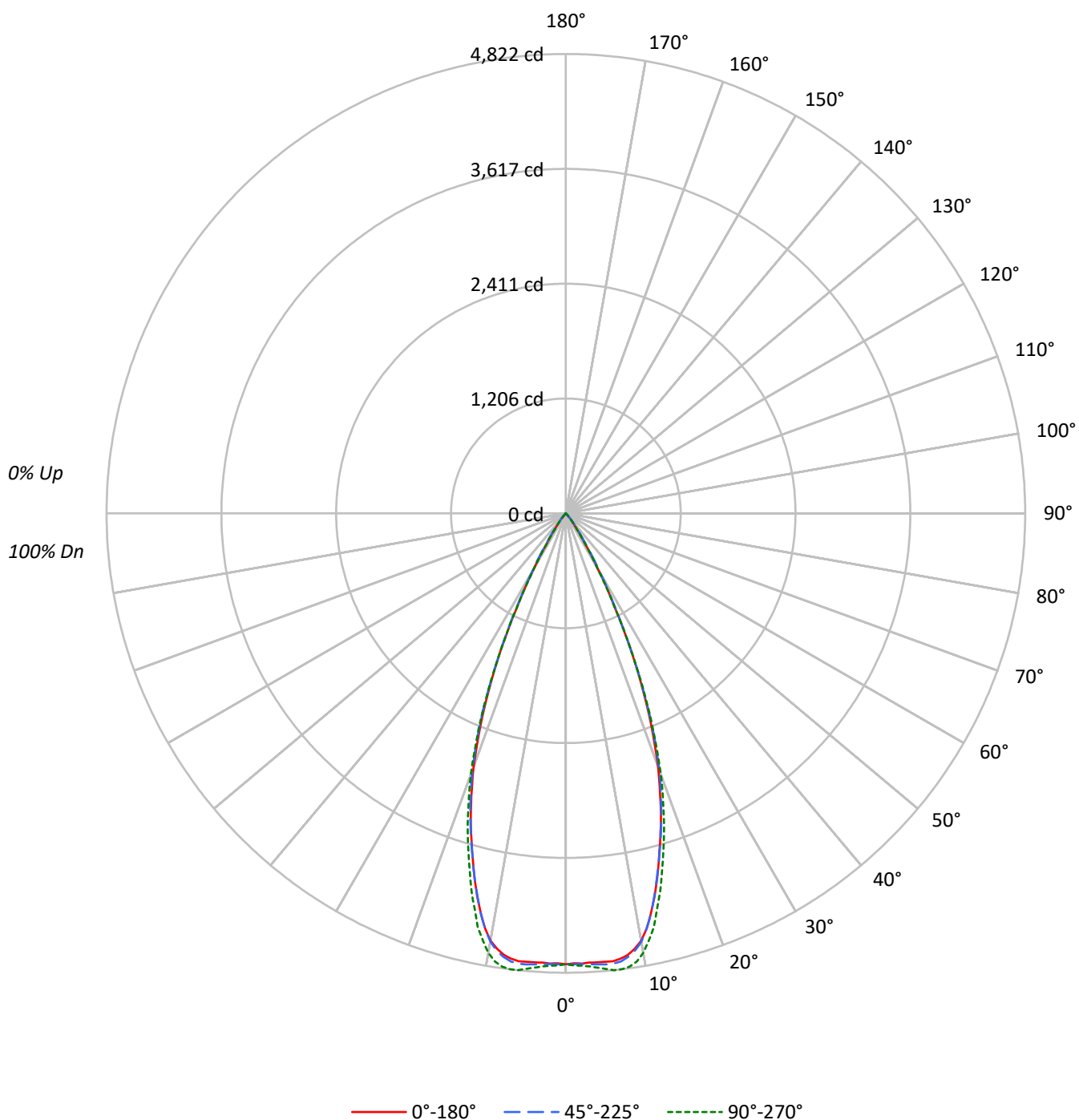
Lumens per Lamp: N/A  
Luminaire Lumens: 2447.0 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.74 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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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   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 96  |  | 98  | 96  | 94  |  | 95  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 97  | 93  | 91  |  | 94  | 92  | 89  |  | 92  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  |  | 90  | 87  | 85  |  | 89  |
| 5   | 98  | 91  | 86  | 83  | 96  | 90  | 86  | 82  | 88  | 85  | 82  |  | 87  | 83  | 81  |  | 85  |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 81  | 78  |  | 83  | 80  | 77  |  | 82  |
| 7   | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  |  | 80  | 76  | 74  |  | 79  |
| 8   | 87  | 79  | 75  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  |  | 77  | 73  | 70  |  | 76  |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  |  | 74  | 70  | 68  |  | 73  |
| 10  | 81  | 73  | 68  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  |  | 71  | 67  | 65  |  | 71  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 815113 | 815113 | 815113 |
| 5°  | 816964 | 821684 | 829861 |
| 10° | 796523 | 798115 | 819100 |
| 15° | 671987 | 672308 | 694364 |
| 20° | 518725 | 526056 | 534725 |
| 25° | 321791 | 322152 | 324223 |
| 30° | 132763 | 141075 | 130575 |
| 35° | 41292  | 50480  | 39778  |
| 40° | 12680  | 17581  | 11848  |
| 45° | 877    | 6649   | 877    |
| 50° | 0      | 965    | 0      |
| 55° | 0      | 0      | 0      |
| 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: 45°

Vertical Angle: 45°

Luminance: 6649 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 450.4  | 18.4      |
| 10°-20°   | 1047.3 | 42.8      |
| 20°-30°   | 768.3  | 31.4      |
| 30°-40°   | 165.1  | 6.7       |
| 40°-50°   | 15.7   | 0.6       |
| 50°-60°   | 0.1    | 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       |
| 0°-30°    | 2266.1 | 92.6      |
| 0°-40°    | 2431.2 | 99.4      |
| 0°-60°    | 2447.0 | 100.0     |
| 0°-90°    | 2447.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2447.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4733 | 4733  | 4733 | 4733  | 4733 |      |
| 5°  | 4726 | 4738  | 4753 | 4786  | 4800 | 447  |
| 15° | 3769 | 3762  | 3771 | 3831  | 3894 | 1038 |
| 25° | 1693 | 1688  | 1695 | 1695  | 1706 | 760  |
| 35° | 196  | 211   | 240  | 206   | 189  | 155  |
| 45° | 4    | 11    | 27   | 11    | 4    | 9    |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4732.9 | 4732.9 | 4732.9 | 4732.9 | 4732.9 |
| 1°    | 4723.8 | 4734.7 | 4734.7 | 4742.0 | 4745.7 |
| 2°    | 4727.5 | 4734.7 | 4732.9 | 4745.7 | 4751.1 |
| 3°    | 4722.0 | 4734.7 | 4738.4 | 4752.9 | 4762.0 |
| 4°    | 4723.8 | 4734.7 | 4745.7 | 4767.5 | 4780.2 |
| 5°    | 4725.6 | 4738.4 | 4752.9 | 4785.7 | 4800.2 |
| 6°    | 4727.5 | 4736.6 | 4752.9 | 4794.8 | 4822.1 |
| 7°    | 4709.3 | 4722.0 | 4740.2 | 4793.0 | 4822.1 |
| 8°    | 4680.2 | 4687.5 | 4702.0 | 4771.1 | 4805.7 |
| 9°    | 4625.6 | 4623.8 | 4645.6 | 4722.0 | 4762.0 |
| 10°   | 4554.7 | 4532.8 | 4563.8 | 4640.2 | 4683.8 |
| 11°   | 4440.1 | 4416.4 | 4443.7 | 4525.6 | 4567.4 |
| 12°   | 4290.9 | 4290.9 | 4296.4 | 4369.1 | 4441.9 |
| 13°   | 4132.7 | 4114.5 | 4125.4 | 4207.2 | 4258.2 |
| 14°   | 3958.0 | 3939.9 | 3950.8 | 4012.6 | 4092.7 |
| 15°   | 3768.9 | 3761.6 | 3770.7 | 3830.7 | 3894.4 |
| 17.5° | 3319.6 | 3303.2 | 3336.0 | 3396.0 | 3428.7 |
| 20°   | 2830.3 | 2857.6 | 2870.3 | 2908.5 | 2917.6 |
| 22.5° | 2268.2 | 2297.3 | 2315.5 | 2321.0 | 2326.4 |
| 25°   | 1693.4 | 1688.0 | 1695.3 | 1695.3 | 1706.2 |
| 27.5° | 1113.2 | 1113.2 | 1133.2 | 1120.5 | 1107.7 |
| 30°   | 667.6  | 694.8  | 709.4  | 685.7  | 656.6  |
| 32.5° | 363.8  | 391.1  | 414.7  | 380.2  | 354.7  |
| 35°   | 196.4  | 211.0  | 240.1  | 205.5  | 189.2  |
| 37.5° | 107.3  | 120.1  | 138.2  | 116.4  | 107.3  |
| 40°   | 56.4   | 69.1   | 78.2   | 69.1   | 52.7   |
| 42.5° | 18.2   | 34.6   | 45.5   | 34.6   | 16.4   |
| 45°   | 3.6    | 10.9   | 27.3   | 10.9   | 3.6    |
| 47.5° | 0.0    | 1.8    | 12.7   | 1.8    | 0.0    |
| 50°   | 0.0    | 0.0    | 3.6    | 0.0    | 0.0    |
| 52.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)