

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: P1308356

Luminaire Tested: P3SQAS20R459030D010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-44)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R459030D010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

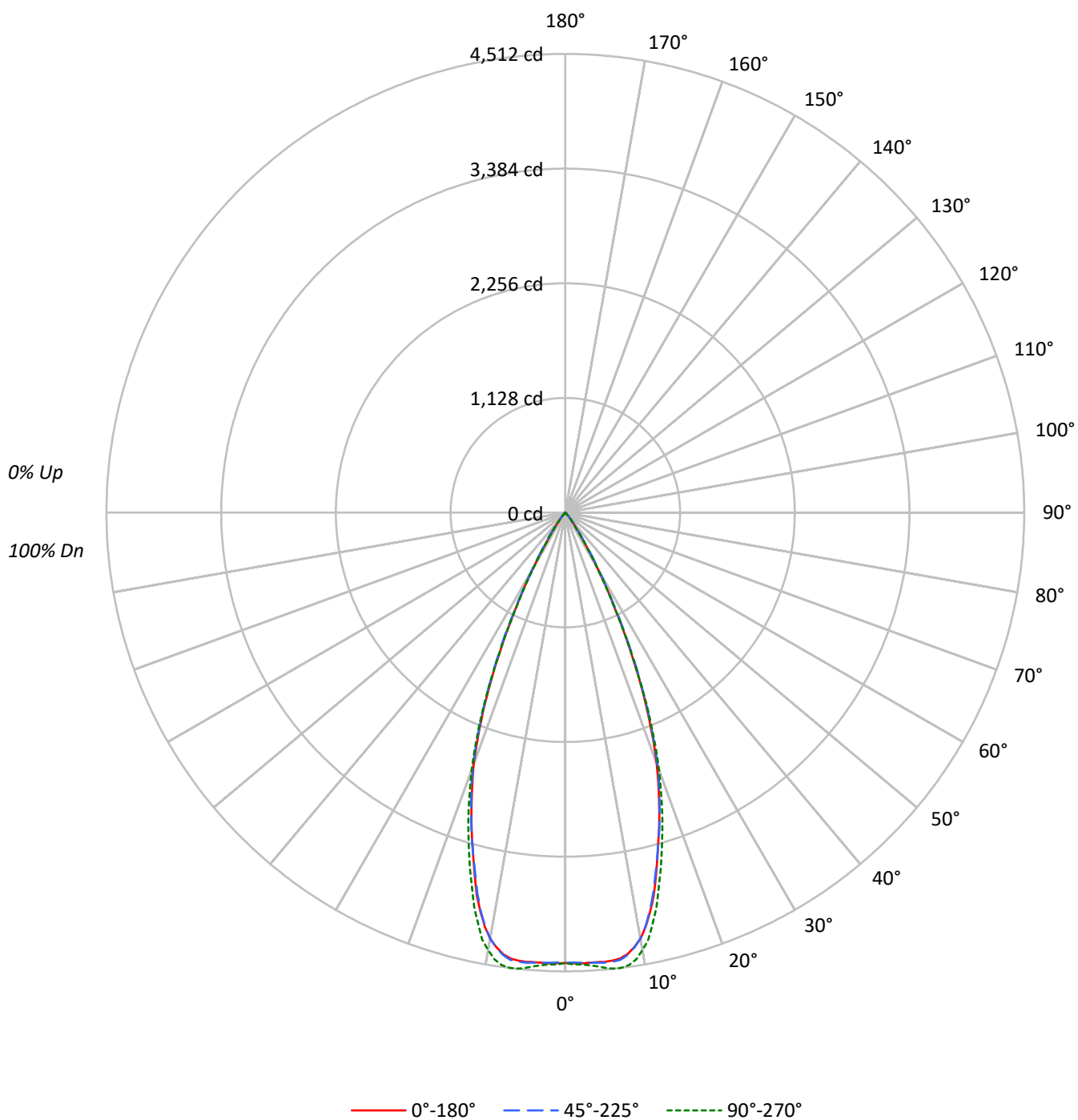
Lumens per Lamp: N/A  
Luminaire Lumens: 2293.1 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 91  | 89  |  | 92  |
| 4   | 101 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 88  | 86  |  | 90  | 87  | 85  |  | 88  |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  |  | 86  | 83  | 81  |  | 85  |
| 6   | 94  | 86  | 82  | 78  | 93  | 86  | 81  | 78  | 84  | 80  | 77  |  | 83  | 79  | 77  |  | 82  |
| 7   | 90  | 83  | 78  | 74  | 89  | 82  | 77  | 74  | 81  | 77  | 74  |  | 80  | 76  | 73  |  | 79  |
| 8   | 87  | 79  | 74  | 71  | 86  | 79  | 74  | 71  | 78  | 73  | 70  |  | 77  | 73  | 70  |  | 76  |
| 9   | 84  | 76  | 71  | 68  | 83  | 75  | 71  | 68  | 75  | 70  | 67  |  | 74  | 70  | 67  |  | 73  |
| 10  | 81  | 73  | 68  | 65  | 80  | 72  | 68  | 65  | 72  | 67  | 65  |  | 71  | 67  | 64  |  | 70  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 763015 | 763015 | 763015 |
| 5°  | 766811 | 768264 | 777029 |
| 10° | 744042 | 743448 | 764136 |
| 15° | 623562 | 623258 | 646170 |
| 20° | 482051 | 487000 | 493818 |
| 25° | 295510 | 301610 | 296157 |
| 30° | 126737 | 132444 | 122700 |
| 35° | 39799  | 47978  | 38727  |
| 40° | 13692  | 17491  | 13309  |
| 45° | 2460   | 7404   | 2070   |
| 50° | 1366   | 2706   | 1366   |
| 55° | 1531   | 1531   | 1531   |
| 60° | 1171   | 1171   | 1171   |
| 65° | 1386   | 1386   | 1386   |
| 70° | 856    | 856    | 856    |
| 75° | 1131   | 1131   | 1131   |
| 80° | 1686   | 1686   | 1686   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 7404 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 421.1  | 18.4      |
| 10°-20°   | 973.0  | 42.4      |
| 20°-30°   | 712.4  | 31.1      |
| 30°-40°   | 157.4  | 6.9       |
| 40°-50°   | 19.3   | 0.8       |
| 50°-60°   | 4.6    | 0.2       |
| 60°-70°   | 3.3    | 0.1       |
| 70°-80°   | 1.9    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 2106.5 | 91.9      |
| 0°-40°    | 2263.8 | 98.7      |
| 0°-60°    | 2287.7 | 99.8      |
| 0°-90°    | 2293.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2293.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4430 | 4430  | 4430 | 4430  | 4430 |      |
| 5°  | 4436 | 4432  | 4444 | 4476  | 4495 | 419  |
| 15° | 3497 | 3479  | 3496 | 3580  | 3624 | 965  |
| 25° | 1555 | 1553  | 1587 | 1575  | 1558 | 704  |
| 35° | 189  | 200   | 228  | 200   | 184  | 149  |
| 45° | 10   | 17    | 30   | 17    | 8    | 14   |
| 55° | 5    | 5     | 5    | 5     | 5    | 4    |
| 65° | 3    | 3     | 3    | 3     | 3    | 3    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 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°    | 4430.4 | 4430.4 | 4430.4 | 4430.4 | 4430.4 |
| 1°    | 4433.8 | 4427.0 | 4425.3 | 4437.2 | 4445.6 |
| 2°    | 4437.2 | 4428.7 | 4430.4 | 4442.2 | 4447.3 |
| 3°    | 4433.8 | 4425.3 | 4433.8 | 4450.7 | 4457.4 |
| 4°    | 4432.1 | 4428.7 | 4437.2 | 4460.8 | 4472.6 |
| 5°    | 4435.5 | 4432.1 | 4443.9 | 4476.0 | 4494.6 |
| 6°    | 4430.4 | 4425.3 | 4442.2 | 4482.8 | 4509.8 |
| 7°    | 4418.6 | 4413.5 | 4432.1 | 4481.1 | 4511.5 |
| 8°    | 4386.4 | 4376.3 | 4394.9 | 4455.7 | 4492.9 |
| 9°    | 4329.0 | 4315.4 | 4334.0 | 4405.0 | 4449.0 |
| 10°   | 4254.6 | 4239.4 | 4251.2 | 4320.5 | 4369.5 |
| 11°   | 4148.1 | 4127.8 | 4141.3 | 4215.7 | 4279.9 |
| 12°   | 4012.9 | 3984.1 | 4001.0 | 4085.6 | 4131.2 |
| 13°   | 3865.8 | 3838.8 | 3842.1 | 3918.2 | 3982.4 |
| 14°   | 3683.3 | 3647.8 | 3663.0 | 3742.4 | 3793.1 |
| 15°   | 3497.3 | 3478.7 | 3495.6 | 3580.1 | 3624.1 |
| 17.5° | 3071.4 | 3069.7 | 3084.9 | 3147.4 | 3171.1 |
| 20°   | 2630.2 | 2635.2 | 2657.2 | 2691.0 | 2694.4 |
| 22.5° | 2107.9 | 2109.5 | 2133.2 | 2156.9 | 2151.8 |
| 25°   | 1555.1 | 1553.4 | 1587.2 | 1575.4 | 1558.5 |
| 27.5° | 1031.1 | 1037.9 | 1068.3 | 1046.3 | 1029.4 |
| 30°   | 637.3  | 650.8  | 666.0  | 638.9  | 617.0  |
| 32.5° | 344.8  | 366.8  | 388.8  | 365.1  | 343.1  |
| 35°   | 189.3  | 199.5  | 228.2  | 199.5  | 184.2  |
| 37.5° | 109.9  | 114.9  | 133.5  | 114.9  | 104.8  |
| 40°   | 60.9   | 69.3   | 77.8   | 69.3   | 59.2   |
| 42.5° | 25.4   | 38.9   | 47.3   | 38.9   | 25.4   |
| 45°   | 10.1   | 16.9   | 30.4   | 16.9   | 8.5    |
| 47.5° | 5.1    | 6.8    | 18.6   | 6.8    | 5.1    |
| 50°   | 5.1    | 5.1    | 10.1   | 5.1    | 5.1    |
| 52.5° | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    |
| 55°   | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    |
| 57.5° | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    |
| 60°   | 3.4    | 3.4    | 3.4    | 5.1    | 3.4    |
| 62.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 65°   | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 67.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 70°   | 1.7    | 1.7    | 1.7    | 3.4    | 1.7    |
| 72.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 75°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 77.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 80°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 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)