

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: P1307229

Luminaire Tested: P3SQAS20R409027D010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R409027D010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

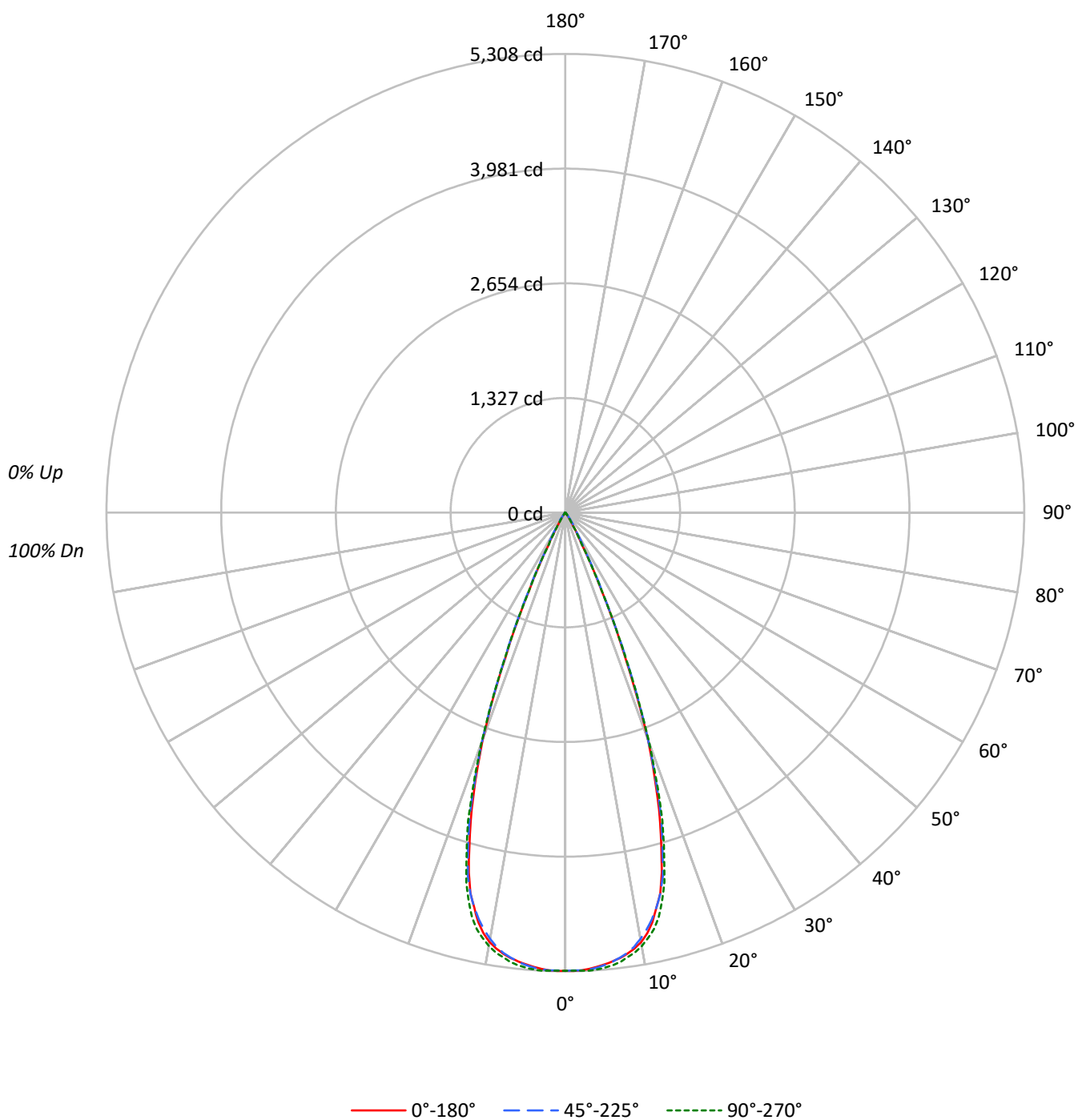
Lumens per Lamp: N/A  
Luminaire Lumens: 2244.1 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.6  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1307229

CATALOG NUMBER: P3SQAS20R409027D010 E3SQCD1MW

### 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   | 115 | 112 | 110 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 |  | 103 | 102 | 101 |  | 99  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  |  | 99  | 97  | 96  |  | 96  |
| 3   | 107 | 102 | 98  | 95  | 105 | 100 | 97  | 94  | 98  | 95  | 93  |  | 96  | 93  | 91  |  | 93  |
| 4   | 103 | 97  | 93  | 90  | 101 | 96  | 92  | 89  | 94  | 91  | 88  |  | 92  | 89  | 87  |  | 91  |
| 5   | 99  | 93  | 89  | 85  | 98  | 92  | 88  | 85  | 91  | 87  | 84  |  | 89  | 86  | 84  |  | 88  |
| 6   | 96  | 89  | 85  | 82  | 95  | 89  | 84  | 81  | 87  | 84  | 81  |  | 86  | 83  | 80  |  | 85  |
| 7   | 93  | 86  | 81  | 78  | 92  | 85  | 81  | 78  | 84  | 80  | 78  |  | 83  | 80  | 77  |  | 82  |
| 8   | 90  | 83  | 78  | 75  | 89  | 82  | 78  | 75  | 81  | 77  | 75  |  | 80  | 77  | 74  |  | 80  |
| 9   | 87  | 80  | 75  | 72  | 86  | 79  | 75  | 72  | 79  | 75  | 72  |  | 78  | 74  | 72  |  | 77  |
| 10  | 84  | 77  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 69  |  | 75  | 72  | 69  |  | 75  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 913142 | 913142 | 913142 |
| 5°  | 907087 | 908452 | 913362 |
| 10° | 882529 | 875901 | 890521 |
| 15° | 768946 | 776827 | 788915 |
| 20° | 512200 | 514803 | 519714 |
| 25° | 186207 | 191908 | 187119 |
| 30° | 39534  | 53037  | 39534  |
| 35° | 13939  | 23547  | 13266  |
| 40° | 4969   | 7442   | 4969   |
| 45° | 1145   | 3069   | 1145   |
| 50° | 857    | 1259   | 857    |
| 55° | 961    | 961    | 961    |
| 60° | 1102   | 1102   | 1102   |
| 65° | 652    | 1304   | 652    |
| 70° | 806    | 806    | 806    |
| 75° | 1065   | 1065   | 1065   |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 3069 cd/sqm

TEST NUMBER: P1307229

CATALOG NUMBER: P3SQAS20R409027D010 E3SQCD1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 495.4  | 22.1      |
| 10°-20°   | 1154.6 | 51.4      |
| 20°-30°   | 519.6  | 23.2      |
| 30°-40°   | 59.1   | 2.6       |
| 40°-50°   | 8.5    | 0.4       |
| 50°-60°   | 2.9    | 0.1       |
| 60°-70°   | 2.5    | 0.1       |
| 70°-80°   | 1.5    | 0.1       |
| 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°    | 2169.6 | 96.7      |
| 0°-40°    | 2228.8 | 99.3      |
| 0°-60°    | 2240.1 | 99.8      |
| 0°-90°    | 2244.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2244.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5302 | 5302  | 5302 | 5302  | 5302 |      |
| 5°  | 5247 | 5241  | 5255 | 5278  | 5283 | 495  |
| 15° | 4313 | 4324  | 4357 | 4392  | 4425 | 1145 |
| 25° | 980  | 986   | 1010 | 1010  | 985  | 507  |
| 35° | 66   | 74    | 112  | 71    | 63   | 50   |
| 45° | 5    | 8     | 13   | 8     | 5    | 6    |
| 55° | 3    | 3     | 3    | 3     | 3    | 3    |
| 65° | 2    | 3     | 3    | 3     | 2    | 2    |
| 75° | 2    | 2     | 2    | 2     | 2    | 1    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1307229

CATALOG NUMBER: P3SQAS20R409027D010 E3SQCD1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5302.1 | 5302.1 | 5302.1 | 5302.1 | 5302.1 |
| 1°    | 5305.3 | 5300.5 | 5299.0 | 5308.4 | 5300.5 |
| 2°    | 5300.5 | 5297.4 | 5299.0 | 5308.4 | 5302.1 |
| 3°    | 5286.3 | 5287.9 | 5292.6 | 5310.0 | 5308.4 |
| 4°    | 5269.0 | 5267.4 | 5276.9 | 5299.0 | 5299.0 |
| 5°    | 5246.9 | 5240.6 | 5254.8 | 5278.4 | 5283.2 |
| 6°    | 5221.6 | 5213.7 | 5224.8 | 5254.8 | 5265.8 |
| 7°    | 5193.2 | 5177.4 | 5186.9 | 5223.2 | 5237.4 |
| 8°    | 5155.4 | 5134.8 | 5145.9 | 5182.2 | 5193.2 |
| 9°    | 5108.0 | 5076.5 | 5085.9 | 5130.1 | 5152.2 |
| 10°   | 5046.5 | 5007.0 | 5008.6 | 5057.5 | 5092.2 |
| 11°   | 4959.7 | 4915.5 | 4917.1 | 4978.6 | 5014.9 |
| 12°   | 4844.5 | 4805.0 | 4812.9 | 4869.7 | 4928.1 |
| 13°   | 4688.3 | 4677.2 | 4686.7 | 4748.2 | 4801.9 |
| 14°   | 4536.8 | 4525.7 | 4543.1 | 4599.9 | 4625.1 |
| 15°   | 4312.7 | 4323.7 | 4356.9 | 4391.6 | 4424.7 |
| 17.5° | 3602.6 | 3645.2 | 3684.7 | 3708.3 | 3736.7 |
| 20°   | 2794.7 | 2745.7 | 2808.9 | 2780.5 | 2835.7 |
| 22.5° | 1803.7 | 1840.0 | 1855.7 | 1840.0 | 1846.3 |
| 25°   | 979.9  | 986.3  | 1009.9 | 1009.9 | 984.7  |
| 27.5° | 416.6  | 449.7  | 479.7  | 468.7  | 416.6  |
| 30°   | 198.8  | 228.8  | 266.7  | 230.4  | 198.8  |
| 32.5° | 112.0  | 132.6  | 172.0  | 129.4  | 108.9  |
| 35°   | 66.3   | 74.2   | 112.0  | 71.0   | 63.1   |
| 37.5° | 39.5   | 41.0   | 61.5   | 42.6   | 37.9   |
| 40°   | 22.1   | 26.8   | 33.1   | 26.8   | 22.1   |
| 42.5° | 11.0   | 15.8   | 20.5   | 15.8   | 11.0   |
| 45°   | 4.7    | 7.9    | 12.6   | 7.9    | 4.7    |
| 47.5° | 4.7    | 4.7    | 7.9    | 4.7    | 4.7    |
| 50°   | 3.2    | 3.2    | 4.7    | 3.2    | 3.2    |
| 52.5° | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 55°   | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 57.5° | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 60°   | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 62.5° | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 65°   | 1.6    | 3.2    | 3.2    | 3.2    | 1.6    |
| 67.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 70°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 72.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 75°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 77.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 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)