

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: P1316198

Luminaire Tested: P3SQAS13R159827DE010 E3SQPH1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R159827DE010 E3SQPH1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3SQPH1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

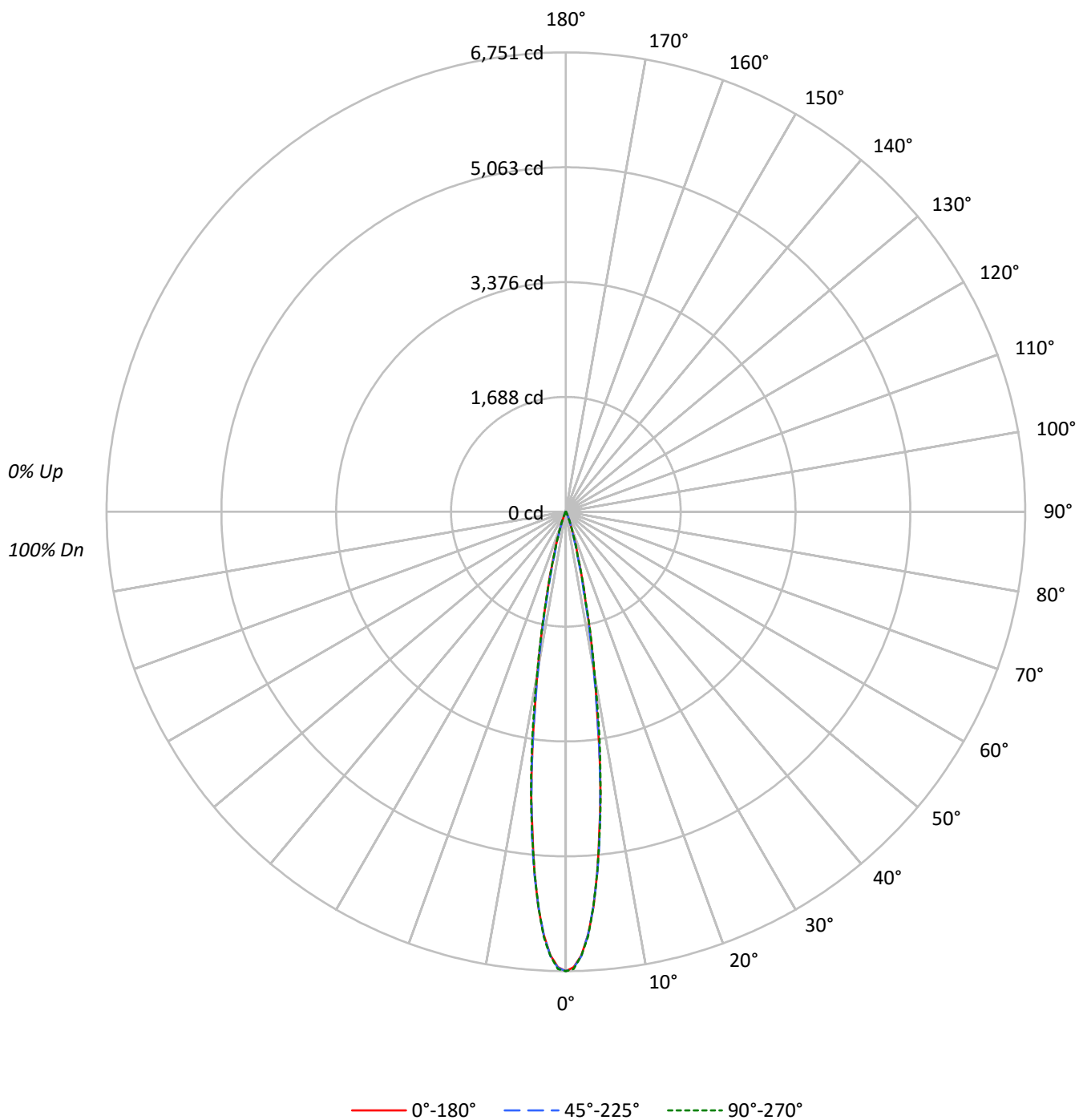
Lumens per Lamp: N/A  
Luminaire Lumens: 676.0 lumens  
Efficiency: N/A  
Efficacy: 46.6 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 |  | 104 | 104 | 103 |  | 101 | 100 | 100 | 98  |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 |  | 102 | 101 | 100 |  | 100 | 99  | 98  | 97  |
| 3   | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99  |  | 101 | 99  | 97  |  | 99  | 97  | 96  | 95  |
| 4   | 108 | 104 | 100 | 98  | 106 | 103 | 100 | 98  | 101 | 98  | 96  |  | 99  | 97  | 95  |  | 97  | 96  | 94  | 93  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 99  | 96  | 94  |  | 97  | 95  | 94  |  | 96  | 94  | 93  | 92  |
| 6   | 104 | 99  | 96  | 93  | 103 | 98  | 95  | 93  | 97  | 94  | 92  |  | 96  | 94  | 92  |  | 95  | 93  | 91  | 91  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  |  | 94  | 92  | 90  |  | 94  | 92  | 90  | 89  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  |  | 93  | 91  | 89  |  | 92  | 90  | 89  | 88  |
| 9   | 98  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  |  | 92  | 89  | 88  |  | 91  | 89  | 87  | 87  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 88  | 87  |  | 90  | 88  | 86  |  | 90  | 88  | 86  | 86  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1162709 | 1162709 | 1162709 |
| 5°  | 917148  | 919603  | 916319  |
| 10° | 419606  | 408606  | 428472  |
| 15° | 124755  | 111383  | 122223  |
| 20° | 37040   | 35940   | 38909   |
| 25° | 10527   | 13625   | 12200   |
| 30° | 3759    | 4037    | 3639    |
| 35° | 1430    | 1282    | 1282    |
| 40° | 607     | 315     | 450     |
| 45° | 341     | 170     | 341     |
| 50° | 188     | 0       | 188     |
| 55° | 210     | 0       | 210     |
| 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: 0°

Vertical Angle: 47.5°

Luminance: 357 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 407.9  | 60.3      |
| 10°-20°   | 226.5  | 33.5      |
| 20°-30°   | 36.0   | 5.3       |
| 30°-40°   | 4.7    | 0.7       |
| 40°-50°   | 0.7    | 0.1       |
| 50°-60°   | 0.2    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 670.4  | 99.2      |
| 0°-40°    | 675.1  | 99.9      |
| 0°-60°    | 676.0  | 100.0     |
| 0°-90°    | 676.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 676.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6751 | 6751  | 6751 | 6751  | 6751 |      |
| 5°  | 5305 | 5350  | 5319 | 5297  | 5300 | 407  |
| 15° | 700  | 691   | 625  | 664   | 686  | 231  |
| 25° | 55   | 62    | 72   | 71    | 64   | 34   |
| 35° | 7    | 7     | 6    | 7     | 6    | 5    |
| 45° | 1    | 1     | 1    | 1     | 1    | 1    |
| 55° | 1    | 0     | 0    | 0     | 1    | 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°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6751.2 | 6751.2 | 6751.2 | 6751.2 | 6751.2 | 6751.2 | 6751.2 | 6751.2 | 6751.2 | 6751.2 | 6751.2 |
| 1°    | 6693.0 | 6700.5 | 6709.9 | 6701.2 | 6693.0 | 6700.5 | 6690.3 | 6691.7 | 6683.6 | 6701.2 | 6720.8 |
| 2°    | 6522.7 | 6532.1 | 6526.7 | 6514.6 | 6533.5 | 6534.8 | 6513.9 | 6503.7 | 6502.4 | 6520.0 | 6526.7 |
| 3°    | 6221.2 | 6242.8 | 6243.5 | 6239.4 | 6233.3 | 6221.2 | 6199.5 | 6213.7 | 6194.1 | 6181.9 | 6250.9 |
| 4°    | 5820.2 | 5839.2 | 5861.5 | 5846.6 | 5802.0 | 5806.0 | 5820.2 | 5772.2 | 5774.9 | 5802.7 | 5804.7 |
| 5°    | 5305.1 | 5362.5 | 5365.3 | 5344.3 | 5309.1 | 5319.3 | 5309.1 | 5295.6 | 5300.3 | 5317.9 | 5300.3 |
| 6°    | 4698.7 | 4763.6 | 4715.6 | 4761.5 | 4751.4 | 4764.2 | 4767.6 | 4753.4 | 4763.6 | 4752.7 | 4749.4 |
| 7°    | 4174.7 | 4125.3 | 4132.1 | 4113.2 | 4133.5 | 4147.0 | 4155.1 | 4130.8 | 4150.4 | 4181.5 | 4190.3 |
| 8°    | 3525.0 | 3510.8 | 3496.6 | 3530.4 | 3520.9 | 3537.2 | 3547.3 | 3574.4 | 3573.0 | 3582.5 | 3613.6 |
| 9°    | 2906.4 | 2927.4 | 2940.2 | 2910.5 | 2936.2 | 2886.1 | 2903.7 | 2976.0 | 2957.1 | 2976.0 | 3031.5 |
| 10°   | 2399.4 | 2416.3 | 2397.3 | 2396.7 | 2369.6 | 2336.5 | 2334.5 | 2361.5 | 2418.3 | 2462.9 | 2450.1 |
| 12.5° | 1323.7 | 1338.6 | 1340.6 | 1339.3 | 1290.6 | 1235.8 | 1246.0 | 1267.6 | 1302.8 | 1317.7 | 1342.0 |
| 15°   | 699.7  | 699.1  | 706.5  | 685.5  | 659.8  | 624.7  | 627.4  | 657.1  | 683.5  | 690.3  | 685.5  |
| 17.5° | 359.0  | 360.3  | 365.8  | 360.3  | 333.3  | 336.7  | 344.1  | 347.5  | 363.0  | 369.1  | 365.8  |
| 20°   | 202.1  | 202.8  | 202.1  | 204.2  | 193.4  | 196.1  | 205.5  | 206.2  | 209.6  | 213.0  | 212.3  |
| 22.5° | 115.6  | 116.3  | 120.3  | 119.0  | 116.3  | 119.7  | 121.7  | 125.1  | 126.4  | 125.1  | 129.1  |
| 25°   | 55.4   | 56.1   | 56.1   | 64.2   | 68.3   | 71.7   | 73.0   | 71.7   | 70.3   | 64.9   | 64.2   |
| 27.5° | 31.8   | 31.8   | 33.1   | 33.8   | 35.2   | 41.2   | 40.6   | 33.8   | 28.4   | 28.4   | 29.1   |
| 30°   | 18.9   | 18.3   | 18.3   | 18.9   | 19.6   | 20.3   | 18.9   | 18.3   | 18.3   | 18.9   | 18.3   |
| 32.5° | 11.5   | 11.5   | 11.5   | 10.8   | 10.8   | 10.1   | 10.1   | 11.5   | 11.5   | 11.5   | 11.5   |
| 35°   | 6.8    | 6.8    | 6.8    | 6.8    | 6.1    | 6.1    | 6.1    | 6.8    | 6.8    | 6.1    | 6.1    |
| 37.5° | 4.1    | 4.1    | 4.1    | 3.4    | 3.4    | 2.7    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 40°   | 2.7    | 2.7    | 2.0    | 2.0    | 1.4    | 1.4    | 1.4    | 2.0    | 2.0    | 2.0    | 2.0    |
| 42.5° | 2.0    | 2.0    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    | 1.4    | 1.4    |
| 45°   | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    |
| 47.5° | 1.4    | 1.4    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    |
| 50°   | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    |
| 52.5° | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    |
| 55°   | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)