

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: P1319366

Luminaire Tested: P3SQAS02R20B2750DE010 E3SQCD1MW\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-34)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R20B2750DE010 E3SQCD1MW\_3500K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 80CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

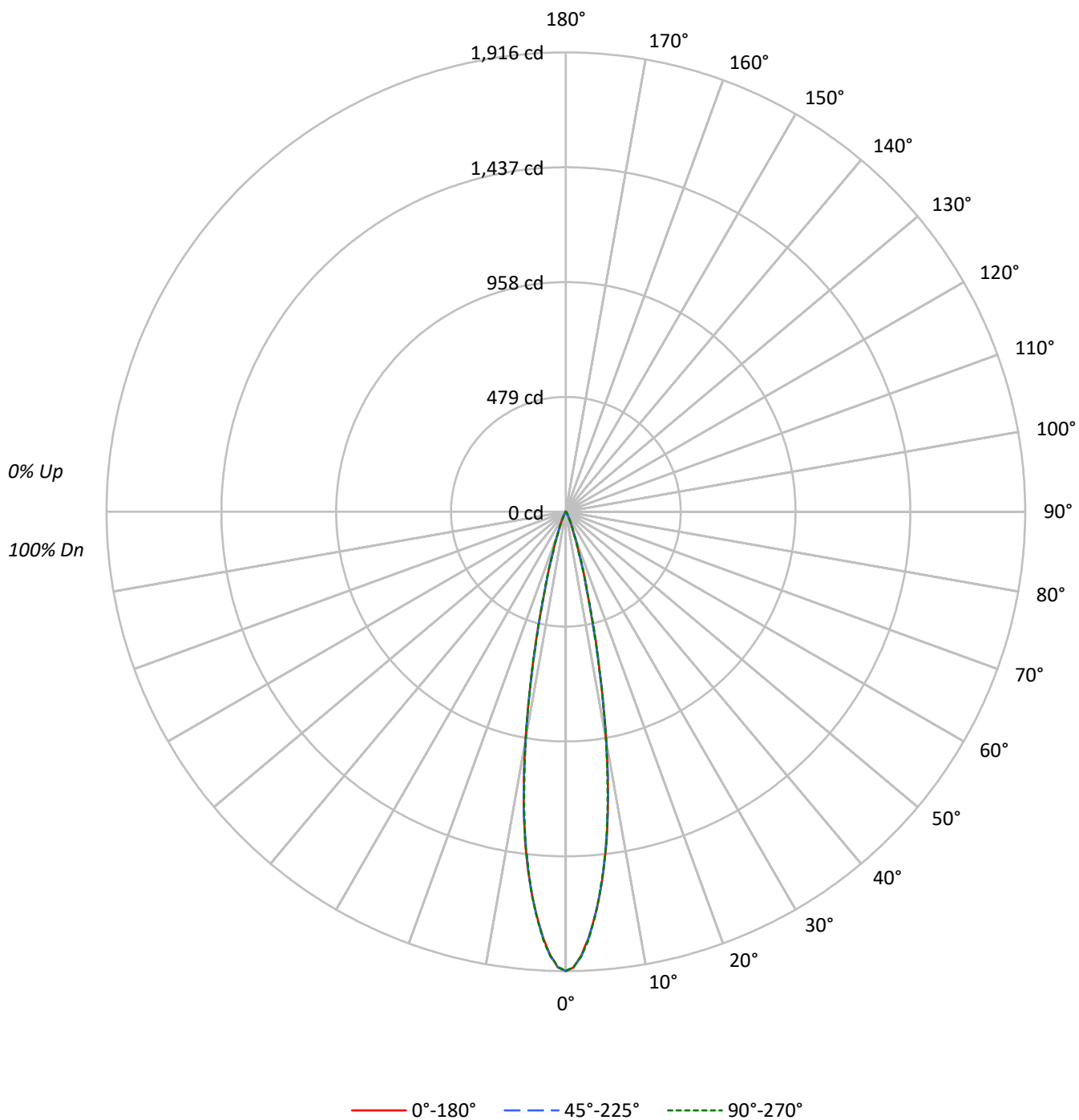
Lumens per Lamp: N/A  
Luminaire Lumens: 264.0 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 2.9  
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  | 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 | 110 | 113 | 111 | 110 | 109 | 108 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99  | 98  |  |  |
| 2   | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 103 | 104 | 102 | 101 | 102 | 100 | 99  | 99  | 98  | 97  | 95  |  |  |
| 3   | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99  | 102 | 99  | 97  | 99  | 97  | 96  | 97  | 96  | 94  | 93  |  |  |
| 4   | 107 | 102 | 98  | 96  | 105 | 101 | 98  | 95  | 99  | 96  | 94  | 97  | 95  | 93  | 96  | 94  | 92  | 91  |  |  |
| 5   | 104 | 99  | 95  | 93  | 103 | 98  | 95  | 92  | 97  | 94  | 92  | 95  | 93  | 91  | 94  | 92  | 90  | 89  |  |  |
| 6   | 102 | 96  | 93  | 90  | 101 | 96  | 92  | 90  | 94  | 92  | 89  | 93  | 91  | 89  | 92  | 90  | 88  | 87  |  |  |
| 7   | 100 | 94  | 90  | 88  | 99  | 94  | 90  | 88  | 92  | 90  | 87  | 92  | 89  | 87  | 91  | 88  | 87  | 86  |  |  |
| 8   | 98  | 92  | 88  | 86  | 97  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 85  | 89  | 87  | 85  | 84  |  |  |
| 9   | 96  | 90  | 87  | 84  | 95  | 90  | 86  | 84  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 85  | 83  | 83  |  |  |
| 10  | 94  | 88  | 85  | 83  | 93  | 88  | 85  | 82  | 87  | 84  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 81  |  |  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 329927 | 329927 | 329927 |
| 5°  | 278078 | 278182 | 278044 |
| 10° | 169458 | 168671 | 169073 |
| 15° | 59694  | 59944  | 61798  |
| 20° | 18749  | 19281  | 18859  |
| 25° | 7031   | 7677   | 7221   |
| 30° | 2724   | 3858   | 2844   |
| 35° | 1030   | 1724   | 1114   |
| 40° | 562    | 742    | 562    |
| 45° | 195    | 341    | 244    |
| 50° | 107    | 161    | 107    |
| 55° | 120    | 120    | 120    |
| 60° | 69     | 69     | 69     |
| 65° | 82     | 82     | 82     |
| 70° | 101    | 101    | 101    |
| 75° | 0      | 0      | 133    |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $45^\circ$

Vertical Angle:  $45^\circ$

Luminance: 341 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.0  | 50.4      |
| 10°-20°   | 104.3  | 39.5      |
| 20°-30°   | 20.5   | 7.8       |
| 30°-40°   | 4.6    | 1.7       |
| 40°-50°   | 1.0    | 0.4       |
| 50°-60°   | 0.3    | 0.1       |
| 60°-70°   | 0.2    | 0.1       |
| 70°-80°   | 0.1    | 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°    | 257.7  | 97.6      |
| 0°-40°    | 262.3  | 99.4      |
| 0°-60°    | 263.7  | 99.9      |
| 0°-90°    | 264.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 264.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1916 | 1916  | 1916 | 1916  | 1916 |      |
| 5°  | 1608 | 1610  | 1609 | 1615  | 1608 | 133  |
| 15° | 335  | 336   | 336  | 344   | 347  | 104  |
| 25° | 37   | 39    | 40   | 40    | 38   | 19   |
| 35° | 5    | 6     | 8    | 6     | 5    | 4    |
| 45° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 1915.7 | 1915.7 | 1915.7 | 1915.7 | 1915.7 |
| 1°    | 1900.2 | 1896.1 | 1900.8 | 1897.2 | 1898.0 |
| 2°    | 1851.0 | 1848.7 | 1854.9 | 1851.0 | 1853.0 |
| 3°    | 1782.6 | 1779.7 | 1784.2 | 1784.4 | 1790.1 |
| 4°    | 1700.9 | 1695.3 | 1702.1 | 1702.3 | 1703.3 |
| 5°    | 1608.5 | 1610.0 | 1609.1 | 1614.7 | 1608.3 |
| 6°    | 1504.8 | 1509.5 | 1503.3 | 1506.4 | 1497.6 |
| 7°    | 1388.8 | 1382.8 | 1379.8 | 1380.8 | 1386.9 |
| 8°    | 1260.7 | 1256.6 | 1261.1 | 1254.8 | 1250.5 |
| 9°    | 1118.3 | 1111.2 | 1116.1 | 1109.9 | 1103.8 |
| 10°   | 969.0  | 965.7  | 964.5  | 957.6  | 966.8  |
| 11°   | 819.3  | 809.5  | 814.4  | 810.9  | 820.9  |
| 12°   | 679.2  | 680.0  | 670.4  | 673.4  | 674.7  |
| 13°   | 552.7  | 539.7  | 541.3  | 549.7  | 551.1  |
| 14°   | 428.7  | 430.6  | 431.2  | 437.1  | 440.6  |
| 15°   | 334.8  | 336.2  | 336.2  | 343.6  | 346.6  |
| 17.5° | 179.5  | 179.5  | 183.4  | 184.2  | 184.6  |
| 20°   | 102.3  | 102.9  | 105.2  | 105.0  | 102.9  |
| 22.5° | 61.3   | 62.5   | 63.7   | 62.5   | 61.3   |
| 25°   | 37.0   | 39.4   | 40.4   | 39.8   | 38.0   |
| 27.5° | 22.1   | 24.7   | 27.6   | 25.3   | 21.9   |
| 30°   | 13.7   | 15.1   | 19.4   | 15.5   | 14.3   |
| 32.5° | 7.6    | 9.8    | 13.3   | 10.2   | 7.8    |
| 35°   | 4.9    | 5.9    | 8.2    | 5.9    | 5.3    |
| 37.5° | 3.5    | 4.1    | 5.1    | 4.3    | 3.7    |
| 40°   | 2.5    | 2.9    | 3.3    | 3.1    | 2.5    |
| 42.5° | 1.6    | 2.0    | 2.2    | 2.0    | 1.6    |
| 45°   | 0.8    | 1.2    | 1.4    | 1.2    | 1.0    |
| 47.5° | 0.4    | 0.6    | 1.0    | 0.6    | 0.4    |
| 50°   | 0.4    | 0.4    | 0.6    | 0.4    | 0.4    |
| 52.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 55°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 57.5° | 0.4    | 0.4    | 0.2    | 0.4    | 0.2    |
| 60°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 62.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 65°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 67.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 70°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 72.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.2    |
| 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)