

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: P1319368

Luminaire Tested: P3SQAS02R20B2750DE010 E3SQCD1MW\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319368  
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\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 80CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

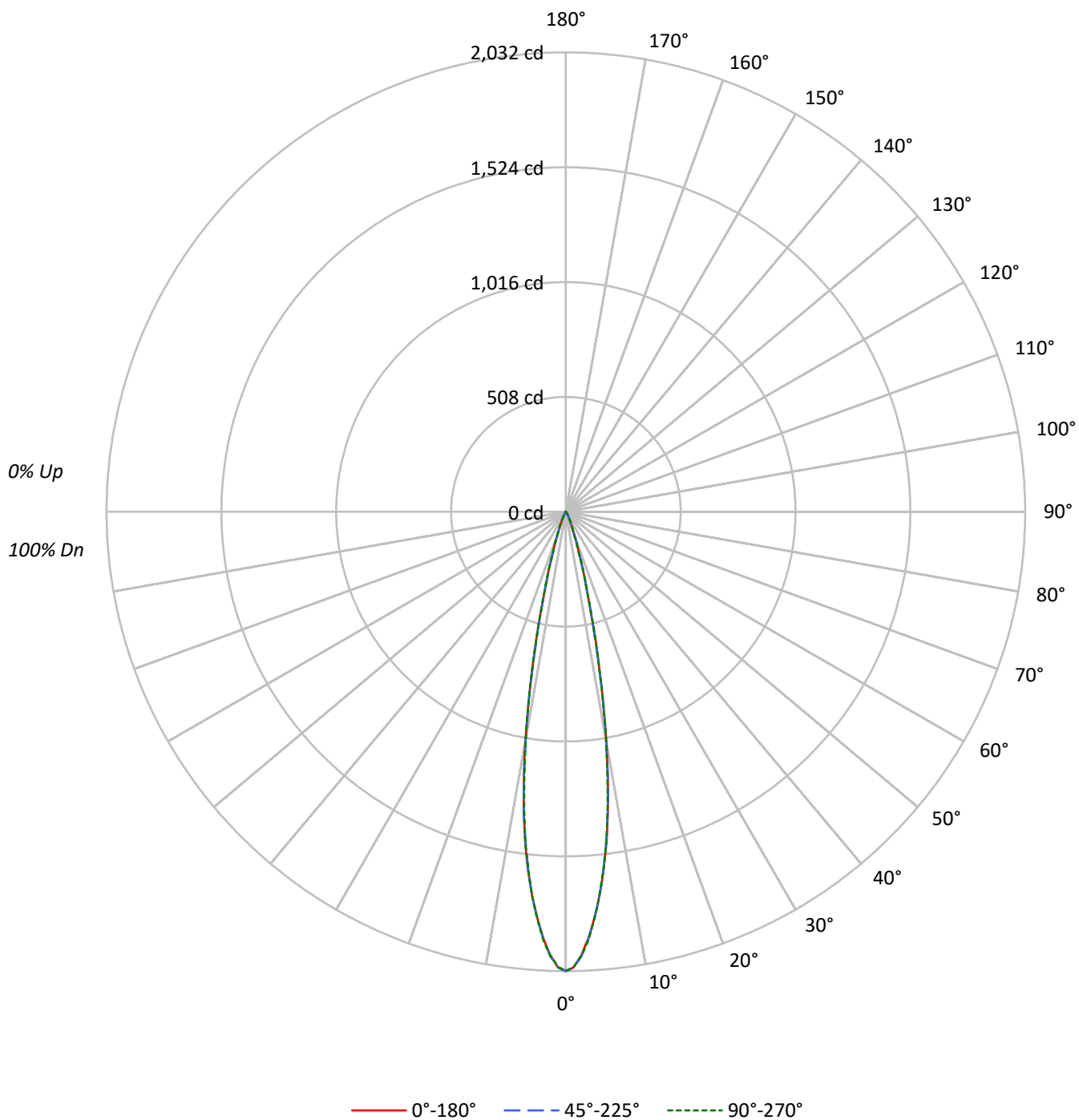
Lumens per Lamp: N/A  
Luminaire Lumens: 279.9 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1319368

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCD1MW\_5000K

### 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  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 |
| 1   | 116 | 114 | 112 | 110 | 113 | 111 | 110 | 109 | 108 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 98  | 98  |
| 2   | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 103 | 104 | 102 | 101 | 102 | 100 | 99  | 99  | 98  | 97  | 95  | 95  | 95  |
| 3   | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99  | 102 | 99  | 97  | 99  | 97  | 96  | 97  | 96  | 94  | 93  | 93  | 93  |
| 4   | 107 | 102 | 98  | 96  | 105 | 101 | 98  | 95  | 99  | 96  | 94  | 97  | 95  | 93  | 96  | 94  | 92  | 91  | 91  | 91  |
| 5   | 104 | 99  | 95  | 93  | 103 | 98  | 95  | 92  | 97  | 94  | 92  | 95  | 93  | 91  | 94  | 92  | 90  | 89  | 89  | 89  |
| 6   | 102 | 96  | 93  | 90  | 101 | 96  | 92  | 90  | 94  | 92  | 89  | 93  | 91  | 89  | 92  | 90  | 88  | 87  | 87  | 87  |
| 7   | 100 | 94  | 91  | 88  | 99  | 94  | 90  | 88  | 92  | 90  | 87  | 92  | 89  | 87  | 91  | 88  | 87  | 86  | 86  | 86  |
| 8   | 98  | 92  | 88  | 86  | 97  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 85  | 89  | 87  | 85  | 84  | 84  | 84  |
| 9   | 96  | 90  | 87  | 84  | 95  | 90  | 86  | 84  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 85  | 83  | 83  | 83  | 83  |
| 10  | 94  | 88  | 85  | 83  | 93  | 88  | 85  | 82  | 87  | 84  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 81  | 81  | 81  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 349922 | 349922 | 349922 |
| 5°  | 294934 | 295055 | 294900 |
| 10° | 179724 | 178902 | 179304 |
| 15° | 63314  | 63581  | 65542  |
| 20° | 19885  | 20454  | 20014  |
| 25° | 7449   | 8152   | 7658   |
| 30° | 2884   | 4097   | 3023   |
| 35° | 1093   | 1829   | 1177   |
| 40° | 585    | 787    | 585    |
| 45° | 219    | 365    | 268    |
| 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°

Vertical Angle: 45°

Luminance: 365 cd/sqm

TEST NUMBER: P1319368

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCD1MW\_5000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 141.0  | 50.4      |
| 10°-20°   | 110.6  | 39.5      |
| 20°-30°   | 21.7   | 7.8       |
| 30°-40°   | 4.9    | 1.7       |
| 40°-50°   | 1.1    | 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°    | 273.4  | 97.7      |
| 0°-40°    | 278.2  | 99.4      |
| 0°-60°    | 279.7  | 99.9      |
| 0°-90°    | 279.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 279.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2032 | 2032  | 2032 | 2032  | 2032 |      |
| 5°  | 1706 | 1708  | 1707 | 1712  | 1706 | 141  |
| 15° | 355  | 357   | 357  | 364   | 368  | 110  |
| 25° | 39   | 42    | 43   | 42    | 40   | 21   |
| 35° | 5    | 6     | 9    | 6     | 6    | 4    |
| 45° | 1    | 1     | 2    | 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    |      |

TEST NUMBER: P1319368

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCD1MW\_5000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2031.8 | 2031.8 | 2031.8 | 2031.8 | 2031.8 |
| 1°    | 2015.4 | 2011.0 | 2016.0 | 2012.1 | 2013.0 |
| 2°    | 1963.2 | 1960.8 | 1967.3 | 1963.2 | 1965.3 |
| 3°    | 1890.6 | 1887.6 | 1892.3 | 1892.5 | 1898.6 |
| 4°    | 1803.9 | 1798.1 | 1805.2 | 1805.5 | 1806.5 |
| 5°    | 1706.0 | 1707.5 | 1706.7 | 1712.5 | 1705.8 |
| 6°    | 1596.0 | 1601.0 | 1594.5 | 1597.7 | 1588.4 |
| 7°    | 1472.9 | 1466.6 | 1463.4 | 1464.5 | 1471.0 |
| 8°    | 1337.1 | 1332.8 | 1337.5 | 1330.8 | 1326.3 |
| 9°    | 1186.1 | 1178.5 | 1183.7 | 1177.2 | 1170.7 |
| 10°   | 1027.7 | 1024.3 | 1023.0 | 1015.6 | 1025.3 |
| 11°   | 868.9  | 858.5  | 863.7  | 860.1  | 870.7  |
| 12°   | 720.3  | 721.2  | 711.0  | 714.3  | 715.6  |
| 13°   | 586.2  | 572.4  | 574.1  | 583.0  | 584.5  |
| 14°   | 454.7  | 456.7  | 457.3  | 463.6  | 467.3  |
| 15°   | 355.1  | 356.6  | 356.6  | 364.4  | 367.6  |
| 17.5° | 190.4  | 190.4  | 194.5  | 195.4  | 195.8  |
| 20°   | 108.5  | 109.2  | 111.6  | 111.4  | 109.2  |
| 22.5° | 65.0   | 66.3   | 67.6   | 66.3   | 65.0   |
| 25°   | 39.2   | 41.8   | 42.9   | 42.2   | 40.3   |
| 27.5° | 23.4   | 26.2   | 29.2   | 26.9   | 23.2   |
| 30°   | 14.5   | 16.0   | 20.6   | 16.5   | 15.2   |
| 32.5° | 8.0    | 10.4   | 14.1   | 10.8   | 8.2    |
| 35°   | 5.2    | 6.3    | 8.7    | 6.3    | 5.6    |
| 37.5° | 3.7    | 4.3    | 5.4    | 4.5    | 3.9    |
| 40°   | 2.6    | 3.0    | 3.5    | 3.2    | 2.6    |
| 42.5° | 1.7    | 2.2    | 2.4    | 2.2    | 1.7    |
| 45°   | 0.9    | 1.3    | 1.5    | 1.3    | 1.1    |
| 47.5° | 0.4    | 0.6    | 1.1    | 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)