

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: CORELITE

Report Number: P1053626

Luminaire Tested: R6R2-100D-830-UNV-STD-W

Issue Date: 7/16/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1053626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/16/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: R6R2-100D-830-UNV-STD-W  
Description: 2FT RIBBON LED LUMINAIRE WITH 3000K LEDS AT HI  
Light Source: -  
Ballast/Driver: -

**Summary**

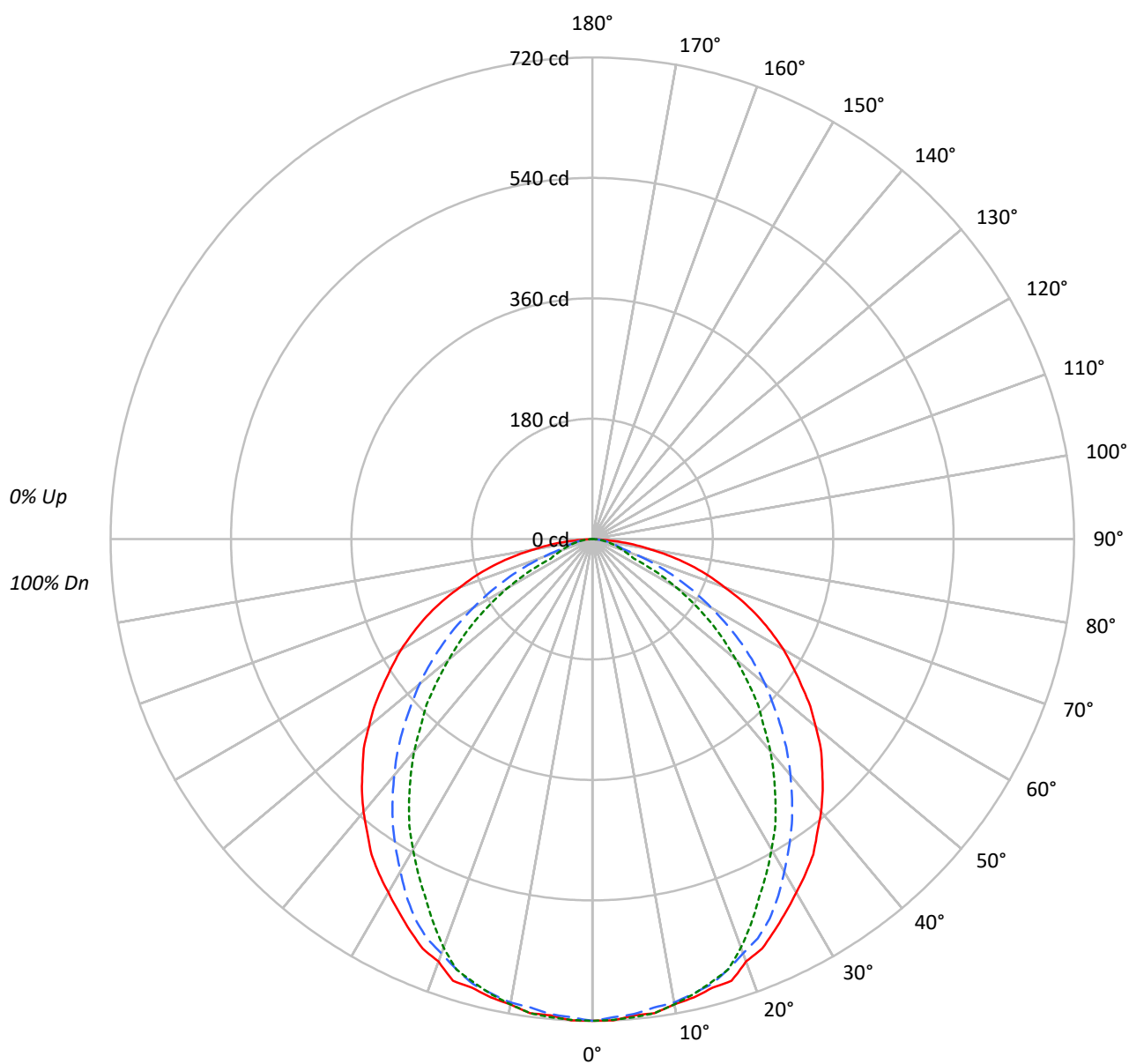
Lumens per Lamp: N/A  
Luminaire Lumens: 1685.7 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.12 / 1.27  
Luminous Opening: Rectangular (W 0.5' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.4  
Input Voltage (V): 120  
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  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  | 86  | 86  |
| 2   | 101 | 93  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  | 74  | 74  |
| 3   | 93  | 83  | 75  | 69  | 90  | 81  | 74  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 73  | 69  | 65  | 63  | 63  | 63  |
| 4   | 85  | 74  | 66  | 60  | 83  | 73  | 65  | 59  | 70  | 64  | 59  | 68  | 62  | 58  | 66  | 61  | 57  | 55  | 55  | 55  |
| 5   | 79  | 67  | 58  | 52  | 77  | 66  | 58  | 52  | 64  | 57  | 51  | 62  | 55  | 51  | 60  | 54  | 50  | 48  | 48  | 48  |
| 6   | 73  | 60  | 52  | 46  | 71  | 59  | 51  | 46  | 58  | 51  | 45  | 56  | 50  | 45  | 54  | 49  | 44  | 42  | 42  | 42  |
| 7   | 68  | 55  | 47  | 41  | 66  | 54  | 46  | 41  | 53  | 46  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 38  | 38  | 38  |
| 8   | 63  | 50  | 42  | 37  | 62  | 50  | 42  | 36  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  | 34  | 34  |
| 9   | 59  | 46  | 38  | 33  | 58  | 46  | 38  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 32  | 31  | 31  | 31  |
| 10  | 56  | 43  | 35  | 30  | 54  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 40  | 34  | 30  | 28  | 28  | 28  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7751 | 7751 | 7751 |
| 5°  | 7721 | 7701 | 7750 |
| 10° | 7719 | 7688 | 7719 |
| 15° | 7736 | 7674 | 7642 |
| 20° | 7696 | 7549 | 7442 |
| 25° | 7662 | 7441 | 7012 |
| 30° | 7579 | 7131 | 6658 |
| 35° | 7562 | 6832 | 6272 |
| 40° | 7475 | 6472 | 5821 |
| 45° | 7392 | 6080 | 5332 |
| 50° | 7294 | 5650 | 4687 |
| 55° | 7165 | 5114 | 4035 |
| 60° | 7102 | 4428 | 3152 |
| 65° | 6963 | 3612 | 1747 |
| 70° | 6622 | 2480 | 1545 |
| 75° | 6359 | 1580 | 1426 |
| 80° | 5517 | 1438 | 1320 |
| 85° | 4001 | 1260 | 1149 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7392 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 68.1   | 4.0       |
| 10°-20°   | 194.6  | 11.5      |
| 20°-30°   | 286.4  | 17.0      |
| 30°-40°   | 328.1  | 19.5      |
| 40°-50°   | 316.2  | 18.8      |
| 50°-60°   | 254.2  | 15.1      |
| 60°-70°   | 154.9  | 9.2       |
| 70°-80°   | 68.0   | 4.0       |
| 80°-90°   | 15.3   | 0.9       |
| 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°    | 549.2  | 32.6      |
| 0°-40°    | 877.3  | 52.0      |
| 0°-60°    | 1447.6 | 85.9      |
| 0°-90°    | 1685.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1685.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 720 | 720   | 720 | 720   | 720 |      |
| 5°  | 715 | 717   | 713 | 719   | 717 | 68   |
| 15° | 694 | 692   | 689 | 689   | 686 | 196  |
| 25° | 645 | 640   | 626 | 605   | 590 | 297  |
| 35° | 576 | 564   | 520 | 490   | 477 | 359  |
| 45° | 486 | 461   | 399 | 364   | 350 | 375  |
| 55° | 382 | 337   | 272 | 231   | 215 | 342  |
| 65° | 273 | 210   | 142 | 93    | 69  | 269  |
| 75° | 153 | 86    | 38  | 35    | 34  | 160  |
| 85° | 32  | 11    | 10  | 10    | 9   | 40   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 720.1 | 720.1 | 720.1 | 720.1 | 720.1 |
| 2.5°  | 720.1 | 719.2 | 715.5 | 728.5 | 719.2 |
| 5°    | 714.6 | 717.3 | 712.7 | 719.2 | 717.3 |
| 7.5°  | 714.6 | 714.6 | 706.2 | 716.4 | 714.6 |
| 10°   | 706.2 | 709.0 | 703.4 | 709.9 | 706.2 |
| 12.5° | 701.6 | 702.5 | 696.0 | 698.8 | 697.0 |
| 15°   | 694.2 | 692.3 | 688.6 | 688.6 | 685.8 |
| 17.5° | 692.3 | 684.0 | 674.7 | 679.3 | 674.7 |
| 20°   | 671.9 | 671.0 | 659.0 | 659.9 | 649.7 |
| 22.5° | 662.7 | 657.1 | 646.0 | 633.0 | 621.0 |
| 25°   | 645.1 | 639.5 | 626.5 | 605.2 | 590.4 |
| 27.5° | 627.4 | 625.6 | 601.5 | 578.3 | 563.5 |
| 30°   | 609.8 | 605.2 | 573.7 | 547.7 | 535.7 |
| 32.5° | 593.1 | 586.7 | 546.8 | 519.0 | 508.8 |
| 35°   | 575.5 | 564.4 | 519.9 | 490.3 | 477.3 |
| 37.5° | 552.4 | 544.0 | 490.3 | 461.5 | 445.8 |
| 40°   | 532.0 | 519.9 | 460.6 | 427.3 | 414.3 |
| 42.5° | 509.7 | 492.1 | 431.0 | 396.7 | 379.1 |
| 45°   | 485.6 | 460.6 | 399.4 | 364.2 | 350.3 |
| 47.5° | 463.4 | 429.1 | 367.0 | 329.9 | 314.2 |
| 50°   | 435.6 | 401.3 | 337.4 | 297.5 | 279.9 |
| 52.5° | 410.6 | 368.9 | 304.9 | 263.2 | 247.5 |
| 55°   | 381.8 | 337.4 | 272.5 | 230.8 | 215.0 |
| 57.5° | 355.0 | 307.7 | 239.1 | 196.5 | 179.8 |
| 60°   | 329.9 | 273.4 | 205.7 | 162.2 | 146.4 |
| 62.5° | 301.2 | 241.9 | 174.2 | 129.8 | 112.1 |
| 65°   | 273.4 | 210.4 | 141.8 | 92.7  | 68.6  |
| 67.5° | 242.8 | 177.9 | 110.3 | 59.3  | 57.5  |
| 70°   | 210.4 | 147.4 | 78.8  | 50.0  | 49.1  |
| 72.5° | 182.6 | 117.7 | 47.3  | 42.6  | 41.7  |
| 75°   | 152.9 | 86.2  | 38.0  | 35.2  | 34.3  |
| 77.5° | 121.4 | 58.4  | 30.6  | 28.7  | 27.8  |
| 80°   | 89.0  | 27.8  | 23.2  | 21.3  | 21.3  |
| 82.5° | 62.1  | 17.6  | 16.7  | 15.8  | 15.8  |
| 85°   | 32.4  | 11.1  | 10.2  | 10.2  | 9.3   |
| 87.5° | 7.4   | 4.6   | 4.6   | 4.6   | 4.6   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |









— 0°-180°    - - 45°-225°    ..... 90°-270°





(END OF REPORT)