

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:

Luminaire Tested: SQ4-PP3-0U-100D-927-1D-UNV-STD-W-6

Issue Date: 8/1/2024

**Test Information**

Test Method: LM-79-2019  
Report Number:  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA ()  
Test Lab: INNOVATION CENTER  
Issue Date: 8/1/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-0U-100D-927-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

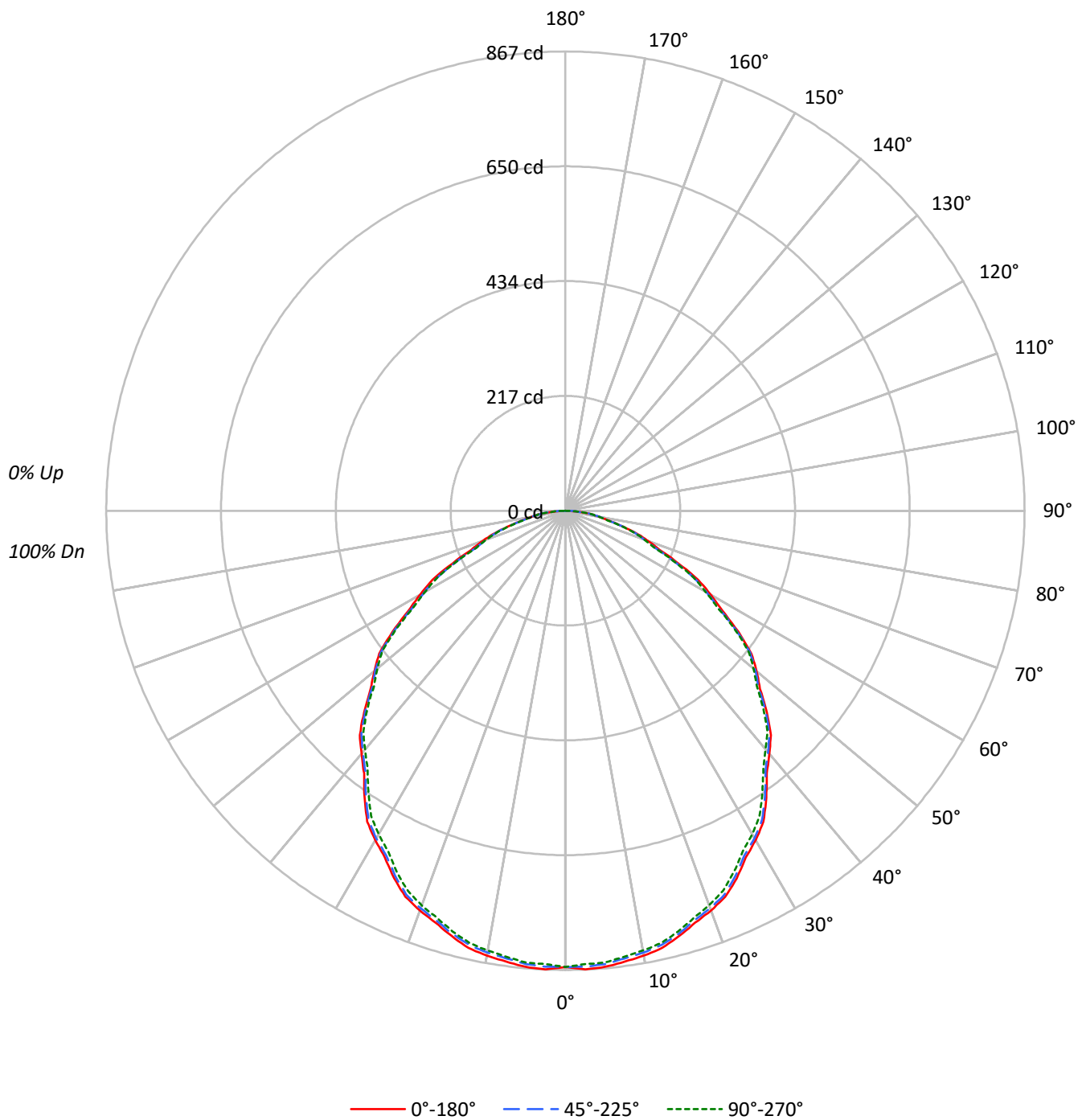
Lumens per Lamp: N/A  
Luminaire Lumens: 2204.7 lumens  
Efficiency: N/A  
Efficacy: 39.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.3  
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

TEST NUMBER:

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### Luminous Intensity Polar Plot



TEST NUMBER:

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 84  | 79  | 76  | 81  | 77  | 74  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 64  | 72  | 67  | 63  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 49  | 62  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 49  | 43  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 42  |
| 7   | 66  | 53  | 45  | 39  | 65  | 52  | 44  | 39  | 51  | 44  | 38  | 49  | 43  | 38  | 48  | 42  | 38  |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 34  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  |
| 9   | 58  | 45  | 37  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 31  |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5298 | 5298 | 5298 |
| 5°  | 5337 | 5304 | 5286 |
| 10° | 5328 | 5291 | 5267 |
| 15° | 5293 | 5264 | 5235 |
| 20° | 5258 | 5228 | 5189 |
| 25° | 5195 | 5159 | 5108 |
| 30° | 5099 | 5072 | 5008 |
| 35° | 4966 | 4932 | 4869 |
| 40° | 4807 | 4777 | 4722 |
| 45° | 4675 | 4643 | 4597 |
| 50° | 4508 | 4479 | 4435 |
| 55° | 4274 | 4218 | 4185 |
| 60° | 3891 | 3780 | 3762 |
| 65° | 3427 | 3285 | 3275 |
| 70° | 2960 | 2838 | 2838 |
| 75° | 2548 | 2512 | 2476 |
| 80° | 2246 | 2274 | 2221 |
| 85° | 1757 | 1920 | 1920 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4675 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.5   | 3.7       |
| 10°-20°   | 232.6  | 10.5      |
| 20°-30°   | 348.4  | 15.8      |
| 30°-40°   | 408.6  | 18.5      |
| 40°-50°   | 409.9  | 18.6      |
| 50°-60°   | 349.7  | 15.9      |
| 60°-70°   | 228.0  | 10.3      |
| 70°-80°   | 114.4  | 5.2       |
| 80°-90°   | 31.7   | 1.4       |
| 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°    | 662.4  | 30.0      |
| 0°-40°    | 1071.0 | 48.6      |
| 0°-60°    | 1830.6 | 83.0      |
| 0°-90°    | 2204.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2204.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 861 | 861   | 861 | 861   | 861 |      |
| 5°  | 864 | 856   | 859 | 856   | 856 | 82   |
| 15° | 831 | 823   | 827 | 824   | 822 | 234  |
| 25° | 766 | 757   | 760 | 753   | 753 | 352  |
| 35° | 661 | 655   | 657 | 649   | 648 | 413  |
| 45° | 538 | 534   | 534 | 528   | 528 | 414  |
| 55° | 399 | 397   | 393 | 391   | 390 | 354  |
| 65° | 236 | 231   | 226 | 224   | 225 | 235  |
| 75° | 107 | 107   | 106 | 105   | 104 | 116  |
| 85° | 25  | 27    | 27  | 27    | 27  | 30   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-0U-100D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 861.4 | 861.4 | 861.4 | 861.4 | 861.4 |
| 2.5°  | 866.8 | 859.7 | 861.4 | 860.1 | 856.6 |
| 5°    | 864.4 | 856.3 | 859.1 | 856.1 | 856.1 |
| 7.5°  | 858.5 | 849.7 | 852.5 | 849.5 | 849.3 |
| 10°   | 853.1 | 844.2 | 847.1 | 844.0 | 843.3 |
| 12.5° | 845.2 | 836.4 | 839.8 | 836.2 | 836.0 |
| 15°   | 831.2 | 823.1 | 826.7 | 823.6 | 822.1 |
| 17.5° | 815.3 | 806.5 | 810.8 | 806.6 | 806.0 |
| 20°   | 803.3 | 794.4 | 798.7 | 792.7 | 792.7 |
| 22.5° | 788.8 | 779.9 | 784.8 | 777.0 | 777.0 |
| 25°   | 765.5 | 756.7 | 760.2 | 753.4 | 752.7 |
| 27.5° | 737.9 | 729.2 | 732.9 | 725.2 | 725.1 |
| 30°   | 718.0 | 709.8 | 714.2 | 705.9 | 705.1 |
| 32.5° | 696.2 | 688.7 | 691.8 | 683.5 | 682.8 |
| 35°   | 661.3 | 654.7 | 656.8 | 649.2 | 648.5 |
| 37.5° | 624.6 | 617.9 | 620.3 | 613.8 | 613.5 |
| 40°   | 598.7 | 594.2 | 594.9 | 589.6 | 588.1 |
| 42.5° | 574.5 | 569.5 | 570.1 | 564.8 | 564.6 |
| 45°   | 537.5 | 533.8 | 533.8 | 528.5 | 528.5 |
| 47.5° | 498.3 | 495.5 | 494.6 | 490.3 | 490.1 |
| 50°   | 471.1 | 468.9 | 468.1 | 464.3 | 463.5 |
| 52.5° | 442.7 | 441.7 | 439.1 | 435.9 | 435.8 |
| 55°   | 398.6 | 397.1 | 393.3 | 391.0 | 390.3 |
| 57.5° | 350.8 | 347.8 | 343.5 | 340.2 | 340.8 |
| 60°   | 316.3 | 313.4 | 307.3 | 305.8 | 305.8 |
| 62.5° | 283.1 | 279.6 | 273.4 | 271.4 | 272.5 |
| 65°   | 235.5 | 231.1 | 225.7 | 224.2 | 225.0 |
| 67.5° | 192.4 | 188.4 | 182.5 | 182.5 | 181.9 |
| 70°   | 164.6 | 162.4 | 157.8 | 157.8 | 157.8 |
| 72.5° | 139.8 | 138.8 | 135.4 | 135.4 | 134.8 |
| 75°   | 107.2 | 107.2 | 105.7 | 104.9 | 104.2 |
| 77.5° | 80.3  | 80.6  | 79.9  | 79.1  | 77.8  |
| 80°   | 63.4  | 64.9  | 64.2  | 63.4  | 62.7  |
| 82.5° | 47.7  | 49.2  | 49.1  | 47.7  | 47.6  |
| 85°   | 24.9  | 27.1  | 27.2  | 27.2  | 27.2  |
| 87.5° | 6.6   | 9.0   | 9.7   | 9.7   | 10.3  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)