

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

(formerly Eaton)

Brand: CORELITE

Report Number: P563487

Luminaire Tested: **SQ4-PP3-0U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563487  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-0U-050D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

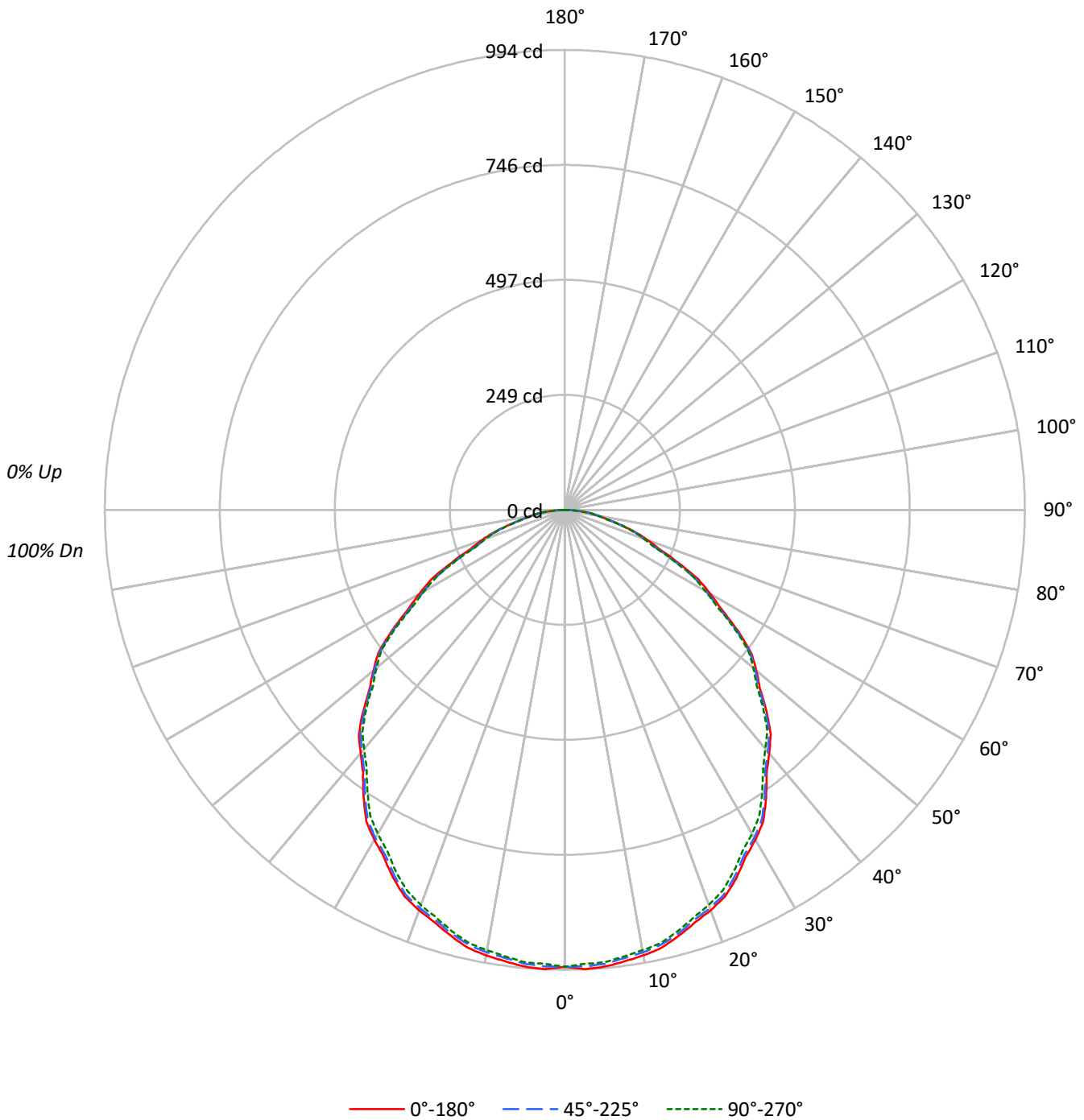
Lumens per Lamp: N/A  
Luminaire Lumens: 2527.8 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.7  
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





TEST NUMBER: P563487

CATALOG NUMBER: SQ4-PP3-OU-050D-940-1D-UNV-STD-W-6

**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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 84  | 79  | 76  | 81  | 77  | 74  | 72  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 49  | 62  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 46  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 49  | 43  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 42  | 40  |
| 7   | 66  | 53  | 45  | 39  | 65  | 52  | 44  | 39  | 51  | 44  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 36  |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 34  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |
| 9   | 58  | 45  | 37  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 31  | 29  |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6075 | 6075 | 6075 |
| 5°  | 6119 | 6082 | 6061 |
| 10° | 6109 | 6066 | 6038 |
| 15° | 6068 | 6035 | 6002 |
| 20° | 6028 | 5994 | 5949 |
| 25° | 5957 | 5915 | 5857 |
| 30° | 5847 | 5815 | 5742 |
| 35° | 5693 | 5654 | 5583 |
| 40° | 5511 | 5477 | 5414 |
| 45° | 5361 | 5324 | 5270 |
| 50° | 5168 | 5136 | 5086 |
| 55° | 4901 | 4836 | 4799 |
| 60° | 4462 | 4334 | 4313 |
| 65° | 3931 | 3767 | 3753 |
| 70° | 3394 | 3253 | 3253 |
| 75° | 2921 | 2880 | 2838 |
| 80° | 2575 | 2607 | 2543 |
| 85° | 2018 | 2202 | 2202 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.4   | 3.7       |
| 10°-20°   | 266.7  | 10.5      |
| 20°-30°   | 399.4  | 15.8      |
| 30°-40°   | 468.5  | 18.5      |
| 40°-50°   | 470.0  | 18.6      |
| 50°-60°   | 400.9  | 15.9      |
| 60°-70°   | 261.5  | 10.3      |
| 70°-80°   | 131.2  | 5.2       |
| 80°-90°   | 36.3   | 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°    | 759.5  | 30.0      |
| 0°-40°    | 1227.9 | 48.6      |
| 0°-60°    | 2098.8 | 83.0      |
| 0°-90°    | 2527.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2527.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 988 | 988   | 988 | 988   | 988 |      |
| 5°  | 991 | 982   | 985 | 982   | 982 | 94   |
| 15° | 953 | 944   | 948 | 944   | 943 | 269  |
| 25° | 878 | 868   | 872 | 864   | 863 | 404  |
| 35° | 758 | 751   | 753 | 744   | 744 | 474  |
| 45° | 616 | 612   | 612 | 606   | 606 | 475  |
| 55° | 457 | 455   | 451 | 448   | 448 | 406  |
| 65° | 270 | 265   | 259 | 257   | 258 | 270  |
| 75° | 123 | 123   | 121 | 120   | 119 | 133  |
| 85° | 29  | 31    | 31  | 31    | 31  | 35   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 987.6 | 987.6 | 987.6 | 987.6 | 987.6 |
| 2.5°  | 993.8 | 985.7 | 987.6 | 986.1 | 982.1 |
| 5°    | 991.1 | 981.8 | 985.0 | 981.6 | 981.6 |
| 7.5°  | 984.3 | 974.2 | 977.4 | 973.9 | 973.8 |
| 10°   | 978.1 | 967.9 | 971.2 | 967.7 | 966.8 |
| 12.5° | 969.1 | 958.9 | 962.9 | 958.7 | 958.5 |
| 15°   | 953.0 | 943.7 | 947.8 | 944.3 | 942.6 |
| 17.5° | 934.8 | 924.7 | 929.6 | 924.8 | 924.1 |
| 20°   | 921.0 | 910.8 | 915.8 | 908.9 | 908.9 |
| 22.5° | 904.3 | 894.2 | 899.8 | 890.8 | 890.8 |
| 25°   | 877.7 | 867.5 | 871.6 | 863.8 | 863.0 |
| 27.5° | 846.0 | 836.0 | 840.3 | 831.5 | 831.3 |
| 30°   | 823.2 | 813.8 | 818.8 | 809.3 | 808.4 |
| 32.5° | 798.2 | 789.6 | 793.2 | 783.7 | 782.8 |
| 35°   | 758.2 | 750.6 | 753.0 | 744.4 | 743.5 |
| 37.5° | 716.2 | 708.4 | 711.2 | 703.7 | 703.4 |
| 40°   | 686.4 | 681.3 | 682.1 | 676.0 | 674.3 |
| 42.5° | 658.7 | 652.9 | 653.7 | 647.6 | 647.3 |
| 45°   | 616.3 | 612.1 | 612.0 | 605.9 | 605.9 |
| 47.5° | 571.3 | 568.1 | 567.1 | 562.1 | 561.9 |
| 50°   | 540.1 | 537.6 | 536.7 | 532.3 | 531.5 |
| 52.5° | 507.6 | 506.4 | 503.4 | 499.8 | 499.6 |
| 55°   | 457.0 | 455.3 | 451.0 | 448.3 | 447.5 |
| 57.5° | 402.1 | 398.8 | 393.8 | 390.0 | 390.7 |
| 60°   | 362.7 | 359.3 | 352.3 | 350.6 | 350.6 |
| 62.5° | 324.6 | 320.5 | 313.5 | 311.1 | 312.5 |
| 65°   | 270.1 | 265.0 | 258.8 | 257.1 | 257.9 |
| 67.5° | 220.5 | 216.0 | 209.3 | 209.3 | 208.6 |
| 70°   | 188.7 | 186.2 | 180.9 | 180.9 | 180.9 |
| 72.5° | 160.3 | 159.1 | 155.3 | 155.3 | 154.6 |
| 75°   | 122.9 | 122.9 | 121.2 | 120.3 | 119.4 |
| 77.5° | 92.1  | 92.4  | 91.6  | 90.7  | 89.2  |
| 80°   | 72.7  | 74.4  | 73.6  | 72.7  | 71.8  |
| 82.5° | 54.7  | 56.4  | 56.3  | 54.7  | 54.5  |
| 85°   | 28.6  | 31.1  | 31.2  | 31.2  | 31.2  |
| 87.5° | 7.6   | 10.3  | 11.1  | 11.1  | 11.8  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)