

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: P564182

Luminaire Tested: **SQ4-PR1-0U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564182  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-0U-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

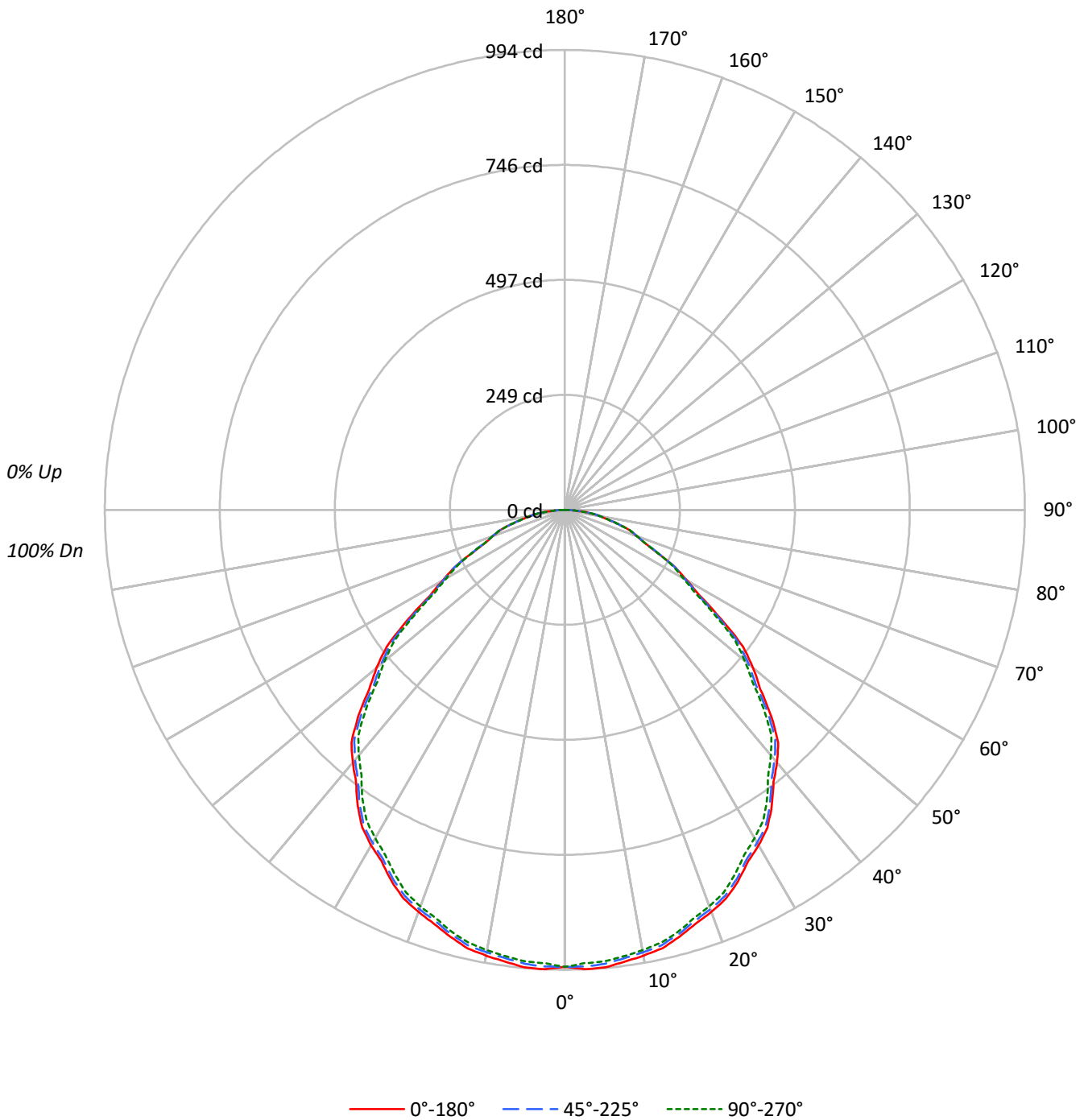
Lumens per Lamp: N/A  
Luminaire Lumens: 2469.0 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
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: P564182  
CATALOG NUMBER: SQ4-PR1-0U-075D-940-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P564182

CATALOG NUMBER: SQ4-PR1-0U-075D-940-1D-UNV-STD-W-4

**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  | 50  | 30 | 10 | 0  |     |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    | 100 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |    | 85  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 72  |    |    |    | 72  |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 68  | 78  | 71  | 66  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |    | 62  |
| 4   | 85  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 63  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 54  |    |    |    | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 50  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  |    |    |    | 47  |
| 6   | 72  | 59  | 51  | 45  | 70  | 58  | 50  | 44  | 57  | 49  | 44  | 55  | 49  | 44  | 53  | 48  | 43  | 41  |    |    |    | 41  |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 39  | 52  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |    | 37  |
| 8   | 63  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 30  |    |    |    | 30  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |    | 27  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9113 | 9113 | 9113 |
| 5°  | 9195 | 9123 | 9076 |
| 10° | 9165 | 9102 | 9054 |
| 15° | 9125 | 9068 | 9020 |
| 20° | 9079 | 9021 | 8954 |
| 25° | 9015 | 8954 | 8850 |
| 30° | 8918 | 8854 | 8727 |
| 35° | 8786 | 8710 | 8585 |
| 40° | 8586 | 8493 | 8340 |
| 45° | 8236 | 8092 | 7925 |
| 50° | 7619 | 7437 | 7290 |
| 55° | 6650 | 6500 | 6363 |
| 60° | 5604 | 5556 | 5447 |
| 65° | 4846 | 4866 | 4829 |
| 70° | 4451 | 4475 | 4475 |
| 75° | 4274 | 4274 | 4306 |
| 80° | 4022 | 4070 | 4022 |
| 85° | 3239 | 3599 | 3599 |



TEST NUMBER: P564182

CATALOG NUMBER: SQ4-PR1-0U-075D-940-1D-UNV-STD-W-4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.4   | 3.8       |
| 10°-20°   | 267.2  | 10.8      |
| 20°-30°   | 403.1  | 16.3      |
| 30°-40°   | 480.2  | 19.5      |
| 40°-50°   | 473.5  | 19.2      |
| 50°-60°   | 361.8  | 14.7      |
| 60°-70°   | 223.9  | 9.1       |
| 70°-80°   | 127.2  | 5.2       |
| 80°-90°   | 38.7   | 1.6       |
| 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°    | 763.7  | 30.9      |
| 0°-40°    | 1243.9 | 50.4      |
| 0°-60°    | 2079.2 | 84.2      |
| 0°-90°    | 2469.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2469.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 988 | 988   | 988 | 988   | 988 |      |
| 5°  | 993 | 982   | 985 | 982   | 980 | 94   |
| 15° | 955 | 945   | 949 | 946   | 944 | 270  |
| 25° | 886 | 875   | 880 | 870   | 869 | 408  |
| 35° | 780 | 771   | 773 | 763   | 762 | 487  |
| 45° | 631 | 623   | 620 | 609   | 607 | 484  |
| 55° | 413 | 407   | 404 | 397   | 396 | 370  |
| 65° | 222 | 220   | 223 | 221   | 221 | 225  |
| 75° | 120 | 120   | 120 | 121   | 121 | 127  |
| 85° | 31  | 32    | 34  | 34    | 34  | 37   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



TEST NUMBER: P564182

CATALOG NUMBER: SQ4-PR1-0U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 987.7 | 987.7 | 987.7 | 987.7 | 987.7 |
| 2.5°  | 993.8 | 985.1 | 987.7 | 985.5 | 980.9 |
| 5°    | 992.8 | 982.0 | 985.1 | 981.7 | 980.0 |
| 7.5°  | 985.1 | 974.5 | 977.6 | 974.2 | 973.2 |
| 10°   | 978.3 | 968.3 | 971.5 | 968.1 | 966.4 |
| 12.5° | 970.8 | 960.2 | 964.0 | 959.9 | 958.2 |
| 15°   | 955.3 | 945.4 | 949.4 | 945.9 | 944.3 |
| 17.5° | 938.3 | 927.7 | 931.7 | 927.7 | 925.6 |
| 20°   | 924.7 | 914.7 | 918.8 | 912.8 | 912.0 |
| 22.5° | 909.7 | 899.8 | 903.8 | 895.8 | 895.6 |
| 25°   | 885.6 | 874.8 | 879.6 | 870.2 | 869.4 |
| 27.5° | 856.8 | 846.8 | 850.9 | 841.3 | 840.3 |
| 30°   | 837.1 | 827.1 | 831.1 | 820.9 | 819.2 |
| 32.5° | 814.6 | 805.3 | 808.7 | 798.4 | 797.4 |
| 35°   | 780.1 | 770.9 | 773.3 | 763.1 | 762.2 |
| 37.5° | 740.8 | 732.5 | 733.8 | 722.6 | 721.7 |
| 40°   | 712.9 | 704.6 | 705.2 | 693.3 | 692.5 |
| 42.5° | 682.3 | 673.9 | 673.2 | 661.3 | 660.5 |
| 45°   | 631.2 | 622.9 | 620.2 | 609.1 | 607.4 |
| 47.5° | 573.0 | 564.7 | 559.6 | 550.5 | 549.4 |
| 50°   | 530.8 | 522.5 | 518.1 | 510.4 | 507.9 |
| 52.5° | 485.2 | 476.9 | 473.2 | 466.1 | 463.6 |
| 55°   | 413.4 | 406.8 | 404.1 | 397.2 | 395.6 |
| 57.5° | 345.2 | 340.7 | 339.9 | 333.3 | 332.6 |
| 60°   | 303.7 | 301.2 | 301.1 | 295.2 | 295.2 |
| 62.5° | 268.3 | 266.5 | 267.8 | 263.9 | 263.2 |
| 65°   | 222.0 | 220.4 | 222.9 | 221.2 | 221.2 |
| 67.5° | 185.5 | 185.5 | 187.0 | 186.3 | 186.3 |
| 70°   | 165.0 | 165.0 | 165.9 | 165.9 | 165.9 |
| 72.5° | 146.7 | 146.0 | 148.2 | 148.2 | 147.5 |
| 75°   | 119.9 | 119.9 | 119.9 | 120.8 | 120.8 |
| 77.5° | 93.4  | 93.6  | 94.3  | 94.1  | 93.4  |
| 80°   | 75.7  | 76.5  | 76.6  | 75.7  | 75.7  |
| 82.5° | 58.0  | 58.8  | 58.9  | 58.7  | 58.0  |
| 85°   | 30.6  | 32.3  | 34.0  | 34.0  | 34.0  |
| 87.5° | 8.8   | 11.5  | 13.6  | 13.6  | 12.9  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)