

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: P562004

Luminaire Tested: **SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562004  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-100U-075D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7812.4 lumens  
Efficiency: N/A  
Efficacy: 121.9 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: General Diffuse

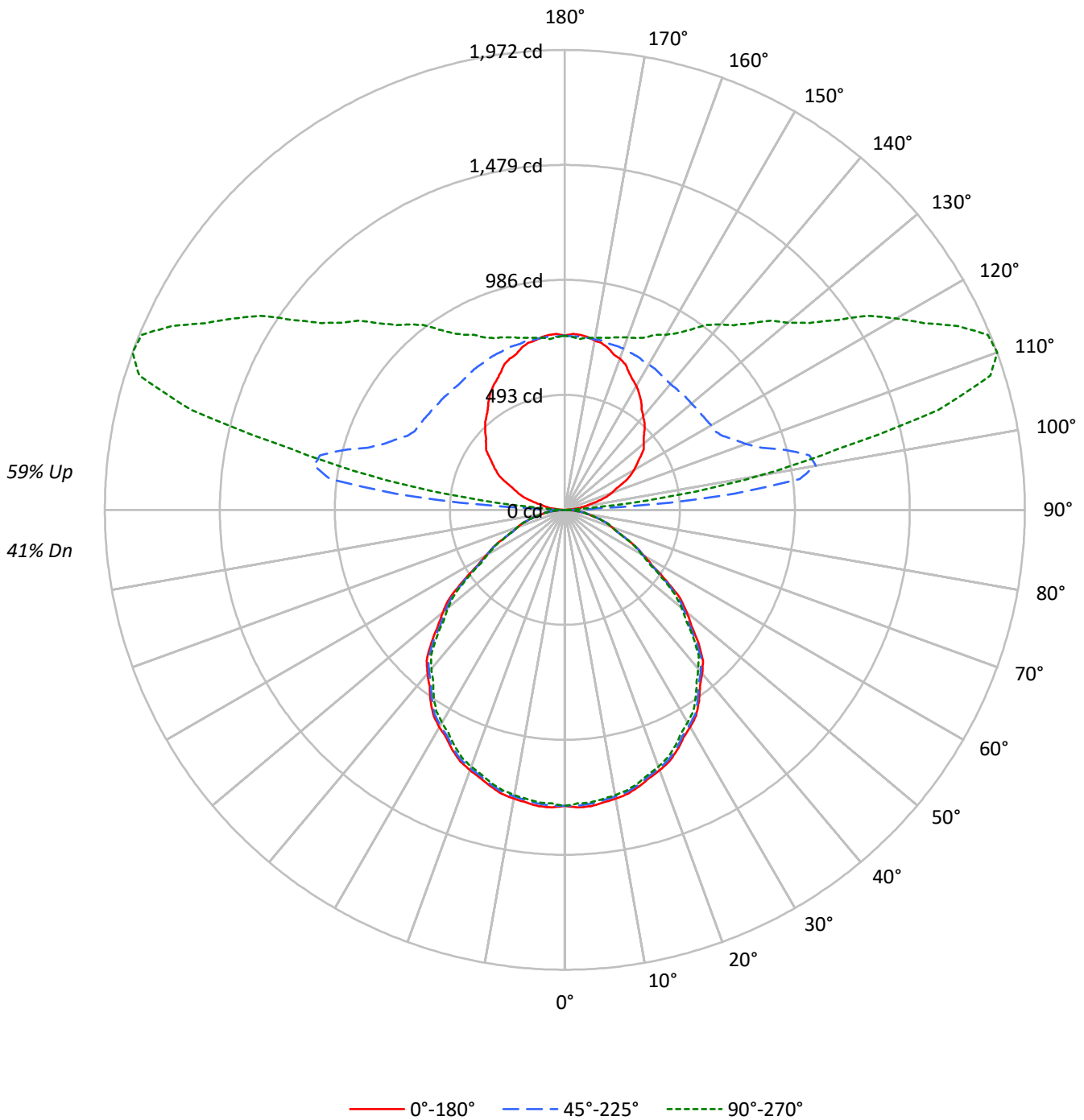
Input Watts (W): 64.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 62 | 62 | 62 | 48 | 48 | 48 | 41 |
| 1   | 96  | 92  | 88  | 85  | 87 | 84 | 81 | 78 | 69 | 67 | 65 | 55 | 54 | 52 | 42 | 41 | 41 | 35 |
| 2   | 88  | 80  | 74  | 69  | 80 | 73 | 68 | 64 | 61 | 57 | 54 | 49 | 46 | 44 | 38 | 36 | 35 | 29 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 54 | 49 | 45 | 43 | 40 | 37 | 33 | 31 | 30 | 25 |
| 4   | 73  | 63  | 55  | 49  | 66 | 58 | 51 | 46 | 48 | 43 | 39 | 39 | 35 | 32 | 30 | 28 | 26 | 22 |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 35 | 31 | 28 | 27 | 25 | 22 | 19 |
| 6   | 62  | 50  | 42  | 37  | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 31 | 27 | 24 | 25 | 22 | 20 | 17 |
| 7   | 57  | 45  | 37  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 28 | 25 | 22 | 22 | 20 | 18 | 15 |
| 8   | 53  | 41  | 33  | 28  | 48 | 38 | 31 | 26 | 32 | 27 | 23 | 26 | 22 | 19 | 21 | 18 | 16 | 13 |
| 9   | 49  | 37  | 30  | 25  | 45 | 35 | 28 | 24 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 12 |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 16 | 18 | 15 | 13 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11710 | 11710 | 11710 |
| 5°  | 11815 | 11724 | 11663 |
| 10° | 11778 | 11696 | 11635 |
| 15° | 11726 | 11653 | 11590 |
| 20° | 11667 | 11592 | 11506 |
| 25° | 11585 | 11506 | 11373 |
| 30° | 11460 | 11378 | 11215 |
| 35° | 11290 | 11192 | 11032 |
| 40° | 11033 | 10914 | 10717 |
| 45° | 10583 | 10398 | 10184 |
| 50° | 9790  | 9555  | 9367  |
| 55° | 8546  | 8353  | 8176  |
| 60° | 7202  | 7141  | 6999  |
| 65° | 6228  | 6252  | 6204  |
| 70° | 5722  | 5751  | 5751  |
| 75° | 5493  | 5493  | 5532  |
| 80° | 5170  | 5228  | 5170  |
| 85° | 4171  | 4626  | 4626  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.0  | 1.5       |
| 10°-20°   | 343.4  | 4.4       |
| 20°-30°   | 517.9  | 6.6       |
| 30°-40°   | 617.1  | 7.9       |
| 40°-50°   | 608.4  | 7.8       |
| 50°-60°   | 465.0  | 6.0       |
| 60°-70°   | 287.8  | 3.7       |
| 70°-80°   | 163.4  | 2.1       |
| 80°-90°   | 49.7   | 0.6       |
| 90°-100°  | 340.3  | 4.4       |
| 100°-110° | 968.4  | 12.4      |
| 110°-120° | 927.8  | 11.9      |
| 120°-130° | 734.4  | 9.4       |
| 130°-140° | 589.4  | 7.5       |
| 140°-150° | 461.5  | 5.9       |
| 150°-160° | 337.6  | 4.3       |
| 160°-170° | 209.1  | 2.7       |
| 170°-180° | 71.0   | 0.9       |
| 0°-30°    | 981.4  | 12.6      |
| 0°-40°    | 1598.5 | 20.5      |
| 0°-60°    | 2671.9 | 34.2      |
| 0°-90°    | 3172.8 | 40.6      |
| 90°-120°  | 2236.6 | 28.6      |
| 90°-150°  | 4021.8 | 51.5      |
| 90°-180°  | 4640.0 | 59.4      |
| 0°-180°   | 7812.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1269 | 1269  | 1269 | 1269  | 1269 |      |
| 5°   | 1276 | 1262  | 1266 | 1262  | 1259 | 121  |
| 15°  | 1228 | 1215  | 1220 | 1216  | 1213 | 346  |
| 25°  | 1138 | 1124  | 1130 | 1118  | 1117 | 524  |
| 35°  | 1002 | 991   | 994  | 981   | 980  | 626  |
| 45°  | 811  | 800   | 797  | 783   | 780  | 621  |
| 55°  | 531  | 523   | 519  | 510   | 508  | 476  |
| 65°  | 285  | 283   | 286  | 284   | 284  | 289  |
| 75°  | 154  | 154   | 154  | 155   | 155  | 163  |
| 85°  | 39   | 42    | 44   | 44    | 44   | 46   |
| 90°  | 0    | 0     | 0    | 0     | 0    | 3    |
| 95°  | 37   | 147   | 659  | 228   | 141  | 42   |
| 105° | 150  | 228   | 987  | 1743  | 1657 | 159  |
| 115° | 280  | 338   | 748  | 1585  | 1862 | 275  |
| 125° | 395  | 438   | 714  | 1185  | 1417 | 353  |
| 135° | 483  | 523   | 706  | 1001  | 1132 | 373  |
| 145° | 569  | 599   | 711  | 866   | 944  | 356  |
| 155° | 650  | 666   | 728  | 783   | 815  | 301  |
| 165° | 718  | 721   | 737  | 753   | 764  | 202  |
| 175° | 753  | 748   | 746  | 741   | 736  | 71   |
| 180° | 747  | 747   | 747  | 747   | 747  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1269.2 | 1269.2 | 1269.2 | 1269.2 | 1269.2 |
| 2.5°   | 1277.1 | 1265.9 | 1269.2 | 1266.4 | 1260.4 |
| 5°     | 1275.7 | 1261.8 | 1265.9 | 1261.5 | 1259.3 |
| 7.5°   | 1265.9 | 1252.2 | 1256.3 | 1251.9 | 1250.6 |
| 10°    | 1257.2 | 1244.3 | 1248.4 | 1244.0 | 1241.9 |
| 12.5°  | 1247.5 | 1233.9 | 1238.8 | 1233.5 | 1231.4 |
| 15°    | 1227.6 | 1214.8 | 1220.0 | 1215.6 | 1213.4 |
| 17.5°  | 1205.8 | 1192.1 | 1197.3 | 1192.2 | 1189.4 |
| 20°    | 1188.3 | 1175.5 | 1180.6 | 1173.0 | 1171.9 |
| 22.5°  | 1169.0 | 1156.2 | 1161.4 | 1151.1 | 1150.9 |
| 25°    | 1138.0 | 1124.1 | 1130.3 | 1118.3 | 1117.2 |
| 27.5°  | 1101.1 | 1088.2 | 1093.4 | 1081.1 | 1079.8 |
| 30°    | 1075.7 | 1062.9 | 1068.0 | 1054.9 | 1052.7 |
| 32.5°  | 1046.8 | 1034.9 | 1039.2 | 1026.0 | 1024.7 |
| 35°    | 1002.4 | 990.7  | 993.7  | 980.6  | 979.5  |
| 37.5°  | 951.9  | 941.3  | 943.0  | 928.5  | 927.5  |
| 40°    | 916.1  | 905.4  | 906.2  | 890.9  | 889.8  |
| 42.5°  | 876.7  | 866.0  | 865.1  | 849.8  | 848.7  |
| 45°    | 811.1  | 800.5  | 796.9  | 782.7  | 780.5  |
| 47.5°  | 736.4  | 725.7  | 719.1  | 707.5  | 706.0  |
| 50°    | 682.1  | 671.5  | 665.7  | 655.8  | 652.6  |
| 52.5°  | 623.5  | 612.9  | 608.0  | 599.0  | 595.8  |
| 55°    | 531.3  | 522.7  | 519.3  | 510.5  | 508.3  |
| 57.5°  | 443.6  | 437.8  | 436.8  | 428.3  | 427.4  |
| 60°    | 390.3  | 387.1  | 387.0  | 379.3  | 379.3  |
| 62.5°  | 344.8  | 342.4  | 344.1  | 339.1  | 338.2  |
| 65°    | 285.3  | 283.2  | 286.4  | 284.2  | 284.2  |
| 67.5°  | 238.3  | 238.3  | 240.3  | 239.4  | 239.4  |
| 70°    | 212.1  | 212.1  | 213.2  | 213.2  | 213.2  |
| 72.5°  | 188.5  | 187.6  | 190.4  | 190.4  | 189.6  |
| 75°    | 154.1  | 154.1  | 154.1  | 155.2  | 155.2  |
| 77.5°  | 120.0  | 120.2  | 121.1  | 120.9  | 120.0  |
| 80°    | 97.3   | 98.4   | 98.4   | 97.3   | 97.3   |
| 82.5°  | 74.6   | 75.6   | 75.6   | 75.4   | 74.6   |
| 85°    | 39.4   | 41.5   | 43.7   | 43.7   | 43.7   |
| 87.5°  | 11.4   | 14.8   | 17.5   | 17.5   | 16.6   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 11.4   | 60.2   | 139.7  | 40.7   | 30.7   |
| 95°    | 36.9   | 146.6  | 658.9  | 228.0  | 140.6  |
| 97.5°  | 67.9   | 171.7  | 1014.7 | 726.1  | 497.6  |
| 100°   | 89.5   | 186.6  | 1092.0 | 1106.1 | 852.0  |
| 102.5° | 113.3  | 202.7  | 1074.9 | 1415.8 | 1193.9 |
| 105°   | 150.5  | 228.3  | 986.9  | 1743.2 | 1657.1 |
| 107.5° | 188.3  | 258.0  | 884.1  | 1835.5 | 1912.1 |
| 110°   | 214.4  | 279.7  | 825.0  | 1800.2 | 1972.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 239.4 | 301.3 | 785.2 | 1716.7 | 1962.1 |
| 115°   | 279.7 | 338.0 | 748.3 | 1585.3 | 1861.6 |
| 117.5° | 315.2 | 369.9 | 726.5 | 1441.7 | 1734.4 |
| 120°   | 343.6 | 389.5 | 724.2 | 1359.6 | 1640.1 |
| 122.5° | 366.4 | 412.2 | 718.5 | 1287.6 | 1548.1 |
| 125°   | 394.8 | 437.8 | 714.2 | 1185.3 | 1417.1 |
| 127.5° | 425.7 | 466.0 | 712.0 | 1124.1 | 1315.2 |
| 130°   | 441.6 | 481.9 | 708.6 | 1081.5 | 1248.2 |
| 132.5° | 458.7 | 497.8 | 708.6 | 1048.3 | 1201.6 |
| 135°   | 482.8 | 523.1 | 705.7 | 1001.2 | 1131.7 |
| 137.5° | 505.5 | 544.7 | 705.4 | 961.3  | 1074.1 |
| 140°   | 522.6 | 562.8 | 704.3 | 928.3  | 1036.6 |
| 142.5° | 541.9 | 575.5 | 707.7 | 901.9  | 999.1  |
| 145°   | 569.4 | 598.6 | 711.4 | 866.5  | 944.3  |
| 147.5° | 593.0 | 621.3 | 717.7 | 830.8  | 898.0  |
| 150°   | 613.4 | 632.9 | 719.9 | 819.0  | 866.2  |
| 152.5° | 629.3 | 649.9 | 722.2 | 803.0  | 846.9  |
| 155°   | 650.3 | 665.6 | 728.4 | 783.1  | 815.1  |
| 157.5° | 676.5 | 685.6 | 729.9 | 774.1  | 796.9  |
| 160°   | 690.1 | 697.1 | 735.5 | 767.2  | 786.7  |
| 162.5° | 698.1 | 706.1 | 736.7 | 761.4  | 776.4  |
| 165°   | 718.5 | 721.3 | 737.0 | 752.8  | 763.9  |
| 167.5° | 732.4 | 729.9 | 743.5 | 750.7  | 755.1  |
| 170°   | 737.0 | 735.6 | 741.2 | 742.8  | 748.3  |
| 172.5° | 747.2 | 742.5 | 744.6 | 740.5  | 744.9  |
| 175°   | 752.6 | 748.4 | 745.5 | 741.1  | 735.5  |
| 177.5° | 754.9 | 748.2 | 744.6 | 740.1  | 741.2  |
| 180°   | 746.9 | 746.9 | 746.9 | 746.9  | 746.9  |

(END OF REPORT)