

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: P523899

Luminaire Tested: **SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523899  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

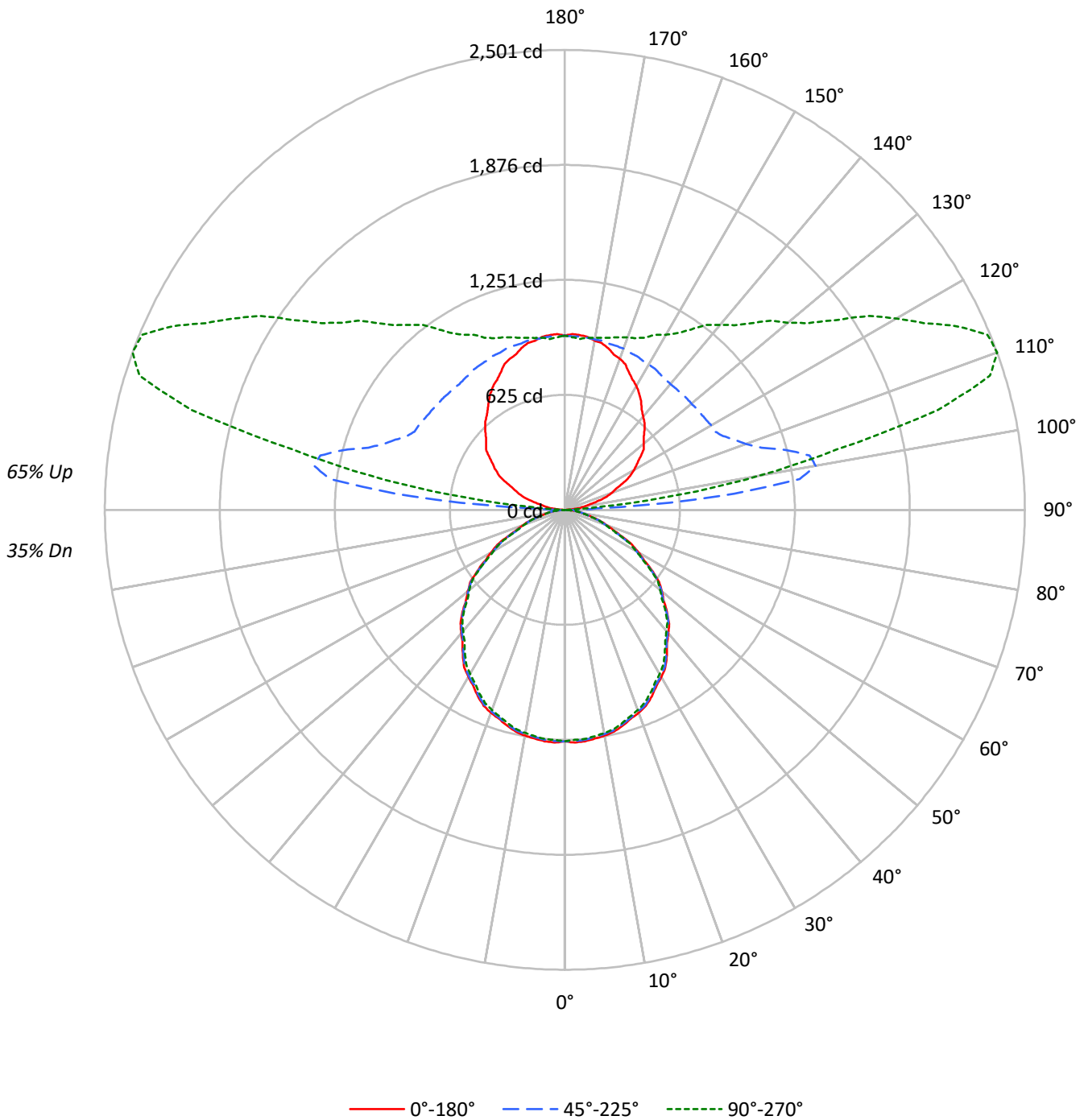
Lumens per Lamp: N/A  
Luminaire Lumens: 9104.5 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 72.9  
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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 43 | 43 | 43 | 35 |
| 1   | 95  | 91  | 87  | 83  | 85 | 82 | 79 | 76 | 66 | 64 | 62 | 51 | 50 | 49 | 38 | 37 | 36 | 30 |
| 2   | 86  | 79  | 73  | 68  | 78 | 72 | 67 | 63 | 58 | 54 | 51 | 45 | 43 | 41 | 34 | 32 | 31 | 25 |
| 3   | 79  | 70  | 63  | 57  | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 40 | 37 | 35 | 30 | 28 | 26 | 22 |
| 4   | 72  | 62  | 54  | 48  | 65 | 56 | 49 | 44 | 45 | 41 | 37 | 36 | 32 | 30 | 27 | 24 | 23 | 19 |
| 5   | 66  | 55  | 47  | 41  | 59 | 50 | 43 | 38 | 41 | 36 | 32 | 32 | 28 | 26 | 24 | 22 | 20 | 16 |
| 6   | 61  | 49  | 41  | 36  | 55 | 45 | 38 | 33 | 37 | 31 | 28 | 29 | 25 | 22 | 22 | 19 | 17 | 14 |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 34 | 29 | 33 | 28 | 24 | 26 | 23 | 20 | 20 | 17 | 15 | 13 |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 18 | 16 | 14 | 11 |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 23 | 28 | 23 | 19 | 22 | 18 | 16 | 17 | 14 | 12 | 10 |
| 10  | 45  | 33  | 26  | 22  | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 16 | 13 | 11 | 9  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11614 | 11614 | 11614 |
| 5°  | 11700 | 11628 | 11587 |
| 10° | 11680 | 11597 | 11546 |
| 15° | 11602 | 11539 | 11476 |
| 20° | 11526 | 11461 | 11375 |
| 25° | 11388 | 11310 | 11198 |
| 30° | 11178 | 11119 | 10978 |
| 35° | 10886 | 10811 | 10674 |
| 40° | 10537 | 10471 | 10352 |
| 45° | 10249 | 10177 | 10077 |
| 50° | 9882  | 9818  | 9723  |
| 55° | 9370  | 9246  | 9175  |
| 60° | 8531  | 8285  | 8245  |
| 65° | 7514  | 7202  | 7178  |
| 70° | 6488  | 6221  | 6221  |
| 75° | 5586  | 5508  | 5429  |
| 80° | 4925  | 4984  | 4867  |
| 85° | 3853  | 4203  | 4203  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.0  | 1.3       |
| 10°-20°   | 339.9  | 3.7       |
| 20°-30°   | 509.1  | 5.6       |
| 30°-40°   | 597.2  | 6.6       |
| 40°-50°   | 599.0  | 6.6       |
| 50°-60°   | 511.0  | 5.6       |
| 60°-70°   | 333.3  | 3.7       |
| 70°-80°   | 167.2  | 1.8       |
| 80°-90°   | 46.3   | 0.5       |
| 90°-100°  | 431.5  | 4.7       |
| 100°-110° | 1227.8 | 13.5      |
| 110°-120° | 1176.4 | 12.9      |
| 120°-130° | 931.1  | 10.2      |
| 130°-140° | 747.3  | 8.2       |
| 140°-150° | 585.1  | 6.4       |
| 150°-160° | 428.1  | 4.7       |
| 160°-170° | 265.2  | 2.9       |
| 170°-180° | 90.0   | 1.0       |
| 0°-30°    | 968.0  | 10.6      |
| 0°-40°    | 1565.2 | 17.2      |
| 0°-60°    | 2675.2 | 29.4      |
| 0°-90°    | 3222.0 | 35.4      |
| 90°-120°  | 2835.8 | 31.1      |
| 90°-150°  | 5099.2 | 56.0      |
| 90°-180°  | 5882.0 | 64.6      |
| 0°-180°   | 9104.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1259 | 1259  | 1259 | 1259  | 1259 |      |
| 5°   | 1263 | 1251  | 1256 | 1251  | 1251 | 120  |
| 15°  | 1215 | 1203  | 1208 | 1204  | 1202 | 343  |
| 25°  | 1119 | 1106  | 1111 | 1101  | 1100 | 514  |
| 35°  | 966  | 957   | 960  | 949   | 948  | 604  |
| 45°  | 786  | 780   | 780  | 772   | 772  | 605  |
| 55°  | 582  | 580   | 575  | 572   | 570  | 518  |
| 65°  | 344  | 338   | 330  | 328   | 329  | 344  |
| 75°  | 157  | 157   | 154  | 153   | 152  | 170  |
| 85°  | 36   | 40    | 40   | 40    | 40   | 43   |
| 90°  | 0    | 0     | 0    | 0     | 0    | 3    |
| 95°  | 47   | 186   | 835  | 289   | 178  | 54   |
| 105° | 191  | 289   | 1251 | 2210  | 2101 | 202  |
| 115° | 355  | 429   | 949  | 2010  | 2360 | 349  |
| 125° | 500  | 555   | 906  | 1503  | 1797 | 448  |
| 135° | 612  | 663   | 895  | 1269  | 1435 | 472  |
| 145° | 722  | 759   | 902  | 1099  | 1197 | 451  |
| 155° | 825  | 844   | 924  | 993   | 1033 | 381  |
| 165° | 911  | 914   | 934  | 954   | 969  | 256  |
| 175° | 954  | 949   | 945  | 940   | 933  | 90   |
| 180° | 947  | 947   | 947  | 947   | 947  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 |
| 2.5°   | 1266.8 | 1256.4 | 1258.8 | 1257.0 | 1251.8 |
| 5°     | 1263.3 | 1251.4 | 1255.5 | 1251.1 | 1251.1 |
| 7.5°   | 1254.7 | 1241.7 | 1245.8 | 1241.4 | 1241.2 |
| 10°    | 1246.7 | 1233.8 | 1237.9 | 1233.4 | 1232.4 |
| 12.5°  | 1235.2 | 1222.3 | 1227.3 | 1222.0 | 1221.8 |
| 15°    | 1214.7 | 1202.9 | 1208.1 | 1203.6 | 1201.5 |
| 17.5°  | 1191.5 | 1178.6 | 1184.9 | 1178.7 | 1177.9 |
| 20°    | 1173.9 | 1161.0 | 1167.3 | 1158.5 | 1158.5 |
| 22.5°  | 1152.7 | 1139.8 | 1147.0 | 1135.5 | 1135.5 |
| 25°    | 1118.7 | 1105.8 | 1111.0 | 1101.1 | 1100.0 |
| 27.5°  | 1078.4 | 1065.6 | 1071.1 | 1059.8 | 1059.6 |
| 30°    | 1049.2 | 1037.4 | 1043.7 | 1031.5 | 1030.5 |
| 32.5°  | 1017.5 | 1006.4 | 1011.1 | 998.9  | 997.8  |
| 35°    | 966.5  | 956.8  | 959.9  | 948.8  | 947.7  |
| 37.5°  | 912.9  | 902.9  | 906.5  | 897.0  | 896.5  |
| 40°    | 874.9  | 868.4  | 869.4  | 861.6  | 859.5  |
| 42.5°  | 839.6  | 832.3  | 833.2  | 825.5  | 825.0  |
| 45°    | 785.5  | 780.1  | 780.0  | 772.3  | 772.3  |
| 47.5°  | 728.2  | 724.1  | 722.9  | 716.5  | 716.3  |
| 50°    | 688.5  | 685.2  | 684.0  | 678.5  | 677.4  |
| 52.5°  | 647.0  | 645.5  | 641.7  | 637.0  | 636.8  |
| 55°    | 582.5  | 580.4  | 574.8  | 571.5  | 570.4  |
| 57.5°  | 512.6  | 508.3  | 502.0  | 497.2  | 498.0  |
| 60°    | 462.3  | 458.0  | 449.0  | 446.8  | 446.8  |
| 62.5°  | 413.7  | 408.6  | 399.6  | 396.6  | 398.3  |
| 65°    | 344.2  | 337.8  | 329.9  | 327.7  | 328.8  |
| 67.5°  | 281.1  | 275.3  | 266.8  | 266.8  | 265.9  |
| 70°    | 240.5  | 237.3  | 230.6  | 230.6  | 230.6  |
| 72.5°  | 204.3  | 202.8  | 197.9  | 197.9  | 197.0  |
| 75°    | 156.7  | 156.7  | 154.5  | 153.3  | 152.3  |
| 77.5°  | 117.4  | 117.8  | 116.7  | 115.6  | 113.6  |
| 80°    | 92.7   | 94.8   | 93.8   | 92.7   | 91.6   |
| 82.5°  | 69.7   | 71.9   | 71.7   | 69.7   | 69.5   |
| 85°    | 36.4   | 39.6   | 39.7   | 39.7   | 39.7   |
| 87.5°  | 9.7    | 13.2   | 14.1   | 14.1   | 15.0   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 14.4   | 76.4   | 177.2  | 51.6   | 38.9   |
| 95°    | 46.8   | 185.9  | 835.4  | 289.1  | 178.2  |
| 97.5°  | 86.1   | 217.7  | 1286.6 | 920.6  | 630.9  |
| 100°   | 113.4  | 236.6  | 1384.5 | 1402.4 | 1080.2 |
| 102.5° | 143.7  | 257.0  | 1362.9 | 1795.1 | 1513.8 |
| 105°   | 190.8  | 289.4  | 1251.3 | 2210.2 | 2101.0 |
| 107.5° | 238.7  | 327.1  | 1120.9 | 2327.2 | 2424.4 |
| 110°   | 271.9  | 354.6  | 1046.0 | 2282.4 | 2500.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 303.5 | 382.1 | 995.6 | 2176.5 | 2487.8 |
| 115°   | 354.7 | 428.6 | 948.8 | 2010.0 | 2360.3 |
| 117.5° | 399.7 | 469.0 | 921.1 | 1827.9 | 2199.0 |
| 120°   | 435.7 | 493.8 | 918.2 | 1723.8 | 2079.4 |
| 122.5° | 464.5 | 522.6 | 911.0 | 1632.5 | 1962.8 |
| 125°   | 500.5 | 555.1 | 905.6 | 1502.8 | 1796.8 |
| 127.5° | 539.8 | 590.8 | 902.7 | 1425.3 | 1667.5 |
| 130°   | 559.9 | 611.0 | 898.4 | 1371.3 | 1582.5 |
| 132.5° | 581.5 | 631.2 | 898.4 | 1329.1 | 1523.5 |
| 135°   | 612.1 | 663.2 | 894.8 | 1269.4 | 1434.9 |
| 137.5° | 640.9 | 690.6 | 894.4 | 1218.9 | 1361.8 |
| 140°   | 662.5 | 713.6 | 893.0 | 1177.0 | 1314.3 |
| 142.5° | 687.0 | 729.6 | 897.3 | 1143.5 | 1266.7 |
| 145°   | 722.0 | 758.9 | 902.0 | 1098.7 | 1197.3 |
| 147.5° | 751.8 | 787.8 | 909.9 | 1053.4 | 1138.6 |
| 150°   | 777.8 | 802.4 | 912.8 | 1038.4 | 1098.2 |
| 152.5° | 797.9 | 824.0 | 915.7 | 1018.1 | 1073.7 |
| 155°   | 824.6 | 843.9 | 923.6 | 992.9  | 1033.4 |
| 157.5° | 857.7 | 869.3 | 925.4 | 981.5  | 1010.4 |
| 160°   | 875.0 | 883.8 | 932.6 | 972.8  | 997.4  |
| 162.5° | 885.1 | 895.3 | 934.0 | 965.4  | 984.4  |
| 165°   | 911.0 | 914.5 | 934.4 | 954.5  | 968.6  |
| 167.5° | 928.6 | 925.5 | 942.7 | 951.8  | 957.4  |
| 170°   | 934.4 | 932.6 | 939.8 | 941.8  | 948.8  |
| 172.5° | 947.4 | 941.4 | 944.1 | 938.8  | 944.5  |
| 175°   | 954.2 | 948.9 | 945.2 | 939.6  | 932.6  |
| 177.5° | 957.1 | 948.6 | 944.1 | 938.4  | 939.8  |
| 180°   | 947.0 | 947.0 | 947.0 | 947.0  | 947.0  |

(END OF REPORT)