

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: P562107

Luminaire Tested: **SQ4-PR1-150U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562107  
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-PR1-150U-075D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10052.3 lumens  
Efficiency: N/A  
Efficacy: 121.3 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: Semi-Indirect

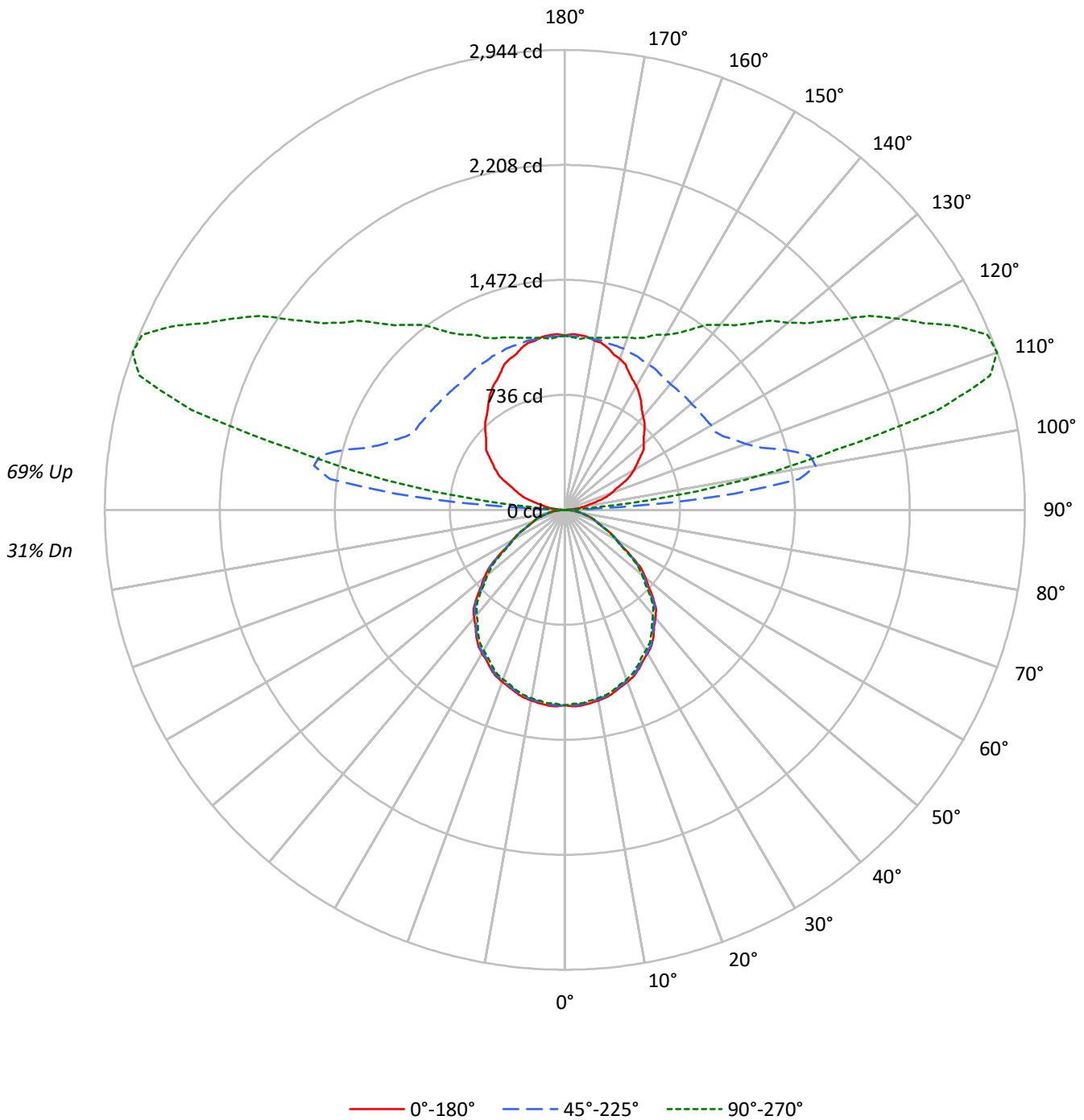
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1   | 94  | 90  | 86  | 83  | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 47 | 46 | 35 | 34 | 33 | 27 |
| 2   | 85  | 78  | 73  | 68  | 77 | 71 | 66 | 62 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 29 | 28 | 23 |
| 3   | 78  | 69  | 62  | 56  | 70 | 62 | 56 | 52 | 50 | 46 | 42 | 38 | 35 | 33 | 27 | 26 | 24 | 19 |
| 4   | 71  | 61  | 54  | 48  | 64 | 55 | 49 | 44 | 44 | 40 | 36 | 34 | 31 | 28 | 24 | 22 | 21 | 17 |
| 5   | 65  | 54  | 47  | 41  | 59 | 49 | 43 | 37 | 40 | 35 | 31 | 30 | 27 | 25 | 22 | 20 | 18 | 15 |
| 6   | 60  | 49  | 41  | 35  | 54 | 44 | 37 | 32 | 36 | 31 | 27 | 28 | 24 | 21 | 20 | 18 | 16 | 13 |
| 7   | 56  | 44  | 36  | 31  | 50 | 40 | 33 | 28 | 32 | 27 | 24 | 25 | 22 | 19 | 18 | 16 | 14 | 11 |
| 8   | 52  | 40  | 32  | 27  | 46 | 36 | 30 | 25 | 29 | 24 | 21 | 23 | 19 | 17 | 17 | 14 | 13 | 10 |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 21 | 17 | 15 | 15 | 13 | 12 | 9  |
| 10  | 45  | 33  | 26  | 21  | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 19 | 16 | 14 | 14 | 12 | 10 | 8  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11546 | 11546 | 11546 |
| 5°  | 11649 | 11559 | 11500 |
| 10° | 11612 | 11532 | 11471 |
| 15° | 11561 | 11490 | 11428 |
| 20° | 11503 | 11430 | 11344 |
| 25° | 11422 | 11346 | 11213 |
| 30° | 11299 | 11218 | 11057 |
| 35° | 11132 | 11034 | 10877 |
| 40° | 10878 | 10761 | 10567 |
| 45° | 10434 | 10252 | 10042 |
| 50° | 9654  | 9422  | 9236  |
| 55° | 8426  | 8236  | 8062  |
| 60° | 7100  | 7041  | 6901  |
| 65° | 6141  | 6165  | 6117  |
| 70° | 5641  | 5670  | 5670  |
| 75° | 5418  | 5418  | 5458  |
| 80° | 5095  | 5154  | 5095  |
| 85° | 4107  | 4563  | 4563  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 118.3   | 1.2       |
| 10°-20°   | 338.6   | 3.4       |
| 20°-30°   | 510.7   | 5.1       |
| 30°-40°   | 608.5   | 6.1       |
| 40°-50°   | 599.9   | 6.0       |
| 50°-60°   | 458.5   | 4.6       |
| 60°-70°   | 283.7   | 2.8       |
| 70°-80°   | 161.2   | 1.6       |
| 80°-90°   | 49.0    | 0.5       |
| 90°-100°  | 507.9   | 5.1       |
| 100°-110° | 1445.2  | 14.4      |
| 110°-120° | 1384.7  | 13.8      |
| 120°-130° | 1095.9  | 10.9      |
| 130°-140° | 879.7   | 8.8       |
| 140°-150° | 688.7   | 6.9       |
| 150°-160° | 503.9   | 5.0       |
| 160°-170° | 312.1   | 3.1       |
| 170°-180° | 105.9   | 1.1       |
| 0°-30°    | 967.6   | 9.6       |
| 0°-40°    | 1576.0  | 15.7      |
| 0°-60°    | 2634.4  | 26.2      |
| 0°-90°    | 3128.3  | 31.1      |
| 90°-120°  | 3337.9  | 33.2      |
| 90°-150°  | 6002.1  | 59.7      |
| 90°-180°  | 6924.0  | 68.9      |
| 0°-180°   | 10052.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1251 | 1251  | 1251 | 1251  | 1251 |      |
| 5°   | 1258 | 1244  | 1248 | 1244  | 1242 | 119  |
| 15°  | 1210 | 1198  | 1203 | 1198  | 1196 | 342  |
| 25°  | 1122 | 1108  | 1114 | 1103  | 1102 | 516  |
| 35°  | 988  | 977   | 980  | 967   | 966  | 617  |
| 45°  | 800  | 789   | 786  | 772   | 770  | 613  |
| 55°  | 524  | 515   | 512  | 503   | 501  | 469  |
| 65°  | 281  | 279   | 282  | 280   | 280  | 285  |
| 75°  | 152  | 152   | 152  | 153   | 153  | 160  |
| 85°  | 39   | 41    | 43   | 43    | 43   | 45   |
| 90°  | 0    | 0     | 0    | 0     | 0    | 4    |
| 95°  | 55   | 219   | 983  | 340   | 210  | 63   |
| 105° | 225  | 341   | 1473 | 2602  | 2473 | 238  |
| 115° | 418  | 504   | 1117 | 2366  | 2778 | 411  |
| 125° | 589  | 653   | 1066 | 1769  | 2115 | 527  |
| 135° | 720  | 781   | 1053 | 1494  | 1689 | 556  |
| 145° | 850  | 893   | 1062 | 1293  | 1409 | 531  |
| 155° | 971  | 993   | 1087 | 1169  | 1216 | 449  |
| 165° | 1072 | 1076  | 1100 | 1124  | 1140 | 302  |
| 175° | 1123 | 1117  | 1113 | 1106  | 1098 | 106  |
| 180° | 1115 | 1115  | 1115 | 1115  | 1115 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1251.4 | 1251.4 | 1251.4 | 1251.4 | 1251.4 |
| 2.5°   | 1259.1 | 1248.2 | 1251.4 | 1248.6 | 1242.7 |
| 5°     | 1257.8 | 1244.1 | 1248.1 | 1243.8 | 1241.7 |
| 7.5°   | 1248.1 | 1234.6 | 1238.6 | 1234.3 | 1233.0 |
| 10°    | 1239.5 | 1226.9 | 1230.9 | 1226.5 | 1224.4 |
| 12.5°  | 1230.0 | 1216.5 | 1221.4 | 1216.2 | 1214.1 |
| 15°    | 1210.4 | 1197.8 | 1202.9 | 1198.5 | 1196.4 |
| 17.5°  | 1188.8 | 1175.4 | 1180.4 | 1175.4 | 1172.7 |
| 20°    | 1171.6 | 1159.0 | 1164.1 | 1156.5 | 1155.4 |
| 22.5°  | 1152.6 | 1140.0 | 1145.1 | 1134.9 | 1134.7 |
| 25°    | 1122.0 | 1108.3 | 1114.5 | 1102.6 | 1101.5 |
| 27.5°  | 1085.6 | 1072.9 | 1078.0 | 1065.9 | 1064.7 |
| 30°    | 1060.6 | 1047.9 | 1053.0 | 1040.1 | 1037.9 |
| 32.5°  | 1032.1 | 1020.3 | 1024.6 | 1011.6 | 1010.4 |
| 35°    | 988.4  | 976.8  | 979.7  | 966.8  | 965.7  |
| 37.5°  | 938.6  | 928.0  | 929.7  | 915.5  | 914.4  |
| 40°    | 903.2  | 892.7  | 893.5  | 878.4  | 877.4  |
| 42.5°  | 864.4  | 853.9  | 853.0  | 837.9  | 836.8  |
| 45°    | 799.7  | 789.2  | 785.7  | 771.7  | 769.6  |
| 47.5°  | 726.0  | 715.5  | 709.0  | 697.5  | 696.1  |
| 50°    | 672.6  | 662.0  | 656.4  | 646.6  | 643.5  |
| 52.5°  | 614.8  | 604.3  | 599.5  | 590.6  | 587.4  |
| 55°    | 523.8  | 515.4  | 512.0  | 503.3  | 501.2  |
| 57.5°  | 437.4  | 431.7  | 430.7  | 422.3  | 421.4  |
| 60°    | 384.8  | 381.6  | 381.6  | 374.0  | 374.0  |
| 62.5°  | 339.9  | 337.6  | 339.3  | 334.3  | 333.5  |
| 65°    | 281.3  | 279.2  | 282.4  | 280.2  | 280.2  |
| 67.5°  | 235.0  | 235.0  | 236.9  | 236.0  | 236.0  |
| 70°    | 209.1  | 209.1  | 210.2  | 210.2  | 210.2  |
| 72.5°  | 185.8  | 185.0  | 187.8  | 187.7  | 186.9  |
| 75°    | 152.0  | 152.0  | 152.0  | 153.1  | 153.1  |
| 77.5°  | 118.3  | 118.6  | 119.4  | 119.2  | 118.3  |
| 80°    | 95.9   | 97.0   | 97.0   | 95.9   | 95.9   |
| 82.5°  | 73.5   | 74.6   | 74.6   | 74.4   | 73.5   |
| 85°    | 38.8   | 40.9   | 43.1   | 43.1   | 43.1   |
| 87.5°  | 11.2   | 14.6   | 17.2   | 17.2   | 16.4   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 17.0   | 89.9   | 208.5  | 60.7   | 45.8   |
| 95°    | 55.1   | 218.8  | 983.3  | 340.3  | 209.8  |
| 97.5°  | 101.3  | 256.3  | 1514.4 | 1083.6 | 742.6  |
| 100°   | 133.5  | 278.6  | 1629.6 | 1650.7 | 1271.5 |
| 102.5° | 169.1  | 302.6  | 1604.2 | 2112.9 | 1781.8 |
| 105°   | 224.6  | 340.7  | 1472.8 | 2601.5 | 2473.1 |
| 107.5° | 281.0  | 385.0  | 1319.4 | 2739.3 | 2853.7 |
| 110°   | 320.0  | 417.4  | 1231.2 | 2686.6 | 2943.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 357.3  | 449.7  | 1171.9 | 2561.9 | 2928.3 |
| 115°   | 417.5  | 504.5  | 1116.8 | 2365.9 | 2778.2 |
| 117.5° | 470.5  | 552.1  | 1084.2 | 2151.6 | 2588.3 |
| 120°   | 512.8  | 581.2  | 1080.8 | 2029.1 | 2447.6 |
| 122.5° | 546.7  | 615.1  | 1072.3 | 1921.6 | 2310.3 |
| 125°   | 589.1  | 653.4  | 1065.9 | 1768.9 | 2114.9 |
| 127.5° | 635.3  | 695.4  | 1062.5 | 1677.6 | 1962.8 |
| 130°   | 659.1  | 719.1  | 1057.5 | 1614.1 | 1862.7 |
| 132.5° | 684.5  | 742.9  | 1057.5 | 1564.5 | 1793.2 |
| 135°   | 720.5  | 780.6  | 1053.2 | 1494.2 | 1689.0 |
| 137.5° | 754.4  | 812.9  | 1052.8 | 1434.7 | 1602.9 |
| 140°   | 779.9  | 839.9  | 1051.1 | 1385.4 | 1547.0 |
| 142.5° | 808.7  | 858.8  | 1056.2 | 1346.0 | 1491.0 |
| 145°   | 849.8  | 893.3  | 1061.7 | 1293.2 | 1409.2 |
| 147.5° | 885.0  | 927.2  | 1071.0 | 1239.9 | 1340.2 |
| 150°   | 915.5  | 944.5  | 1074.4 | 1222.2 | 1292.7 |
| 152.5° | 939.2  | 969.9  | 1077.8 | 1198.4 | 1263.9 |
| 155°   | 970.6  | 993.4  | 1087.1 | 1168.7 | 1216.4 |
| 157.5° | 1009.6 | 1023.2 | 1089.2 | 1155.3 | 1189.3 |
| 160°   | 1029.9 | 1040.3 | 1097.7 | 1145.0 | 1174.0 |
| 162.5° | 1041.8 | 1053.8 | 1099.4 | 1136.4 | 1158.8 |
| 165°   | 1072.3 | 1076.4 | 1099.8 | 1123.5 | 1140.1 |
| 167.5° | 1093.1 | 1089.3 | 1109.6 | 1120.3 | 1127.0 |
| 170°   | 1099.8 | 1097.8 | 1106.2 | 1108.5 | 1116.8 |
| 172.5° | 1115.1 | 1108.1 | 1111.3 | 1105.1 | 1111.7 |
| 175°   | 1123.2 | 1116.9 | 1112.6 | 1106.0 | 1097.7 |
| 177.5° | 1126.5 | 1116.6 | 1111.3 | 1104.5 | 1106.2 |
| 180°   | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 |

(END OF REPORT)