

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: P564070

Luminaire Tested: **SQ4-PR1-075U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564070  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

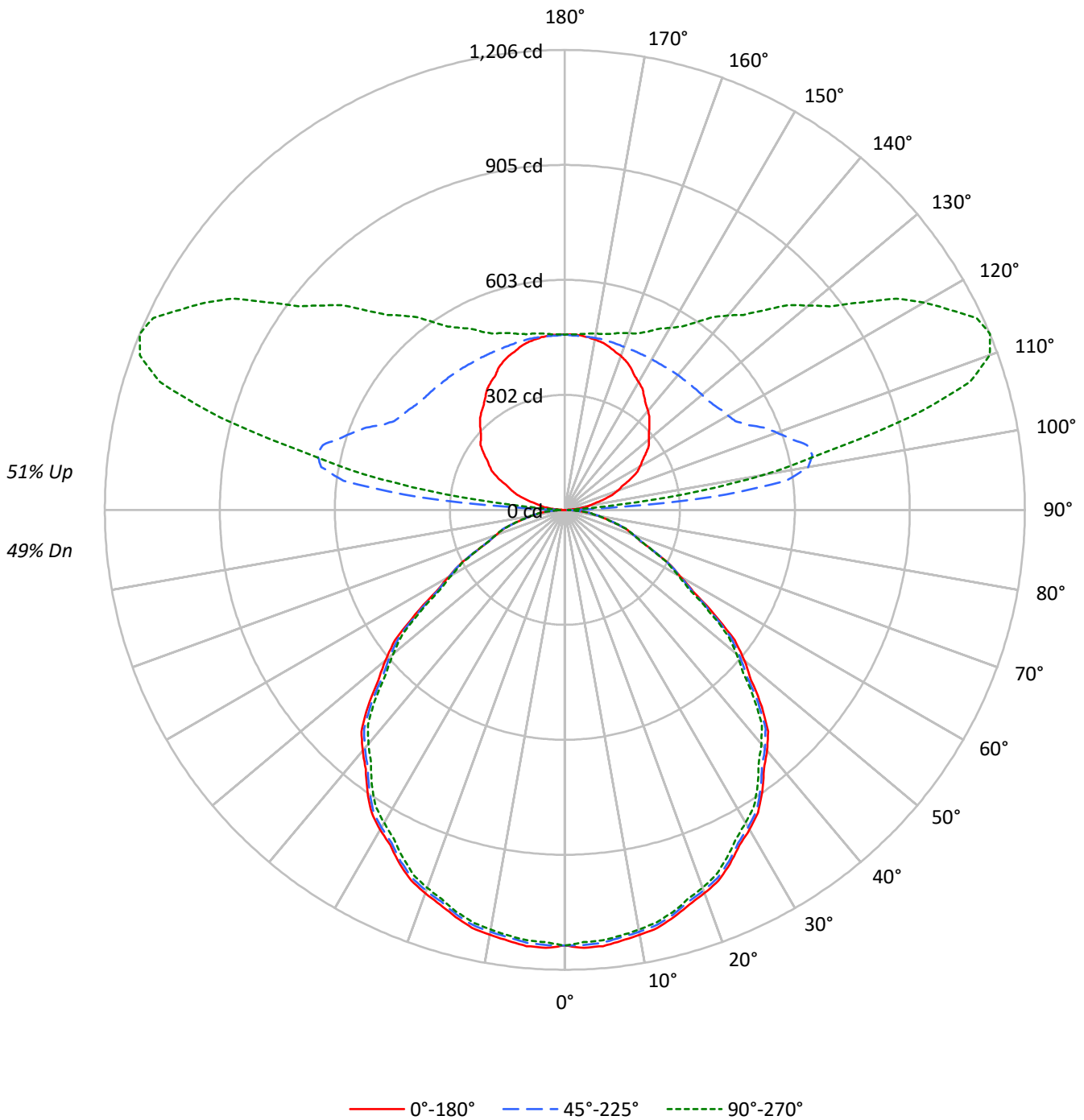
Lumens per Lamp: N/A  
Luminaire Lumens: 5851.1 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 42.5  
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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 | 49 |    |    |    |   |
| 1   | 98  | 94  | 90  | 86  | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 60 | 59 | 57 | 49 | 48 | 47 | 42 |    |    |    |   |
| 2   | 89  | 82  | 76  | 71  | 82 | 76 | 71 | 66 | 64 | 60 | 57 | 53 | 51 | 48 | 44 | 42 | 40 | 35 |    |    |    |   |
| 3   | 82  | 72  | 65  | 59  | 75 | 67 | 61 | 56 | 57 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 | 30 |    |    |    |   |
| 4   | 75  | 64  | 56  | 50  | 69 | 59 | 53 | 47 | 51 | 45 | 41 | 42 | 39 | 36 | 35 | 32 | 30 | 26 |    |    |    |   |
| 5   | 69  | 57  | 49  | 43  | 63 | 53 | 46 | 41 | 45 | 40 | 36 | 38 | 34 | 31 | 31 | 28 | 26 | 23 |    |    |    |   |
| 6   | 63  | 51  | 43  | 38  | 58 | 48 | 41 | 36 | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 25 | 23 | 20 |    |    |    |   |
| 7   | 59  | 46  | 39  | 33  | 54 | 43 | 36 | 31 | 37 | 32 | 28 | 31 | 27 | 24 | 26 | 23 | 21 | 18 |    |    |    |   |
| 8   | 54  | 42  | 35  | 29  | 50 | 39 | 32 | 28 | 34 | 28 | 25 | 29 | 25 | 21 | 24 | 21 | 18 | 16 |    |    |    |   |
| 9   | 51  | 39  | 31  | 26  | 47 | 36 | 29 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 19 | 17 | 14 |    |    |    |   |
| 10  | 47  | 35  | 28  | 23  | 44 | 33 | 27 | 22 | 29 | 23 | 20 | 24 | 20 | 17 | 21 | 17 | 15 | 13 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10541 | 10541 | 10541 |
| 5°  | 10636 | 10553 | 10499 |
| 10° | 10602 | 10528 | 10473 |
| 15° | 10556 | 10490 | 10433 |
| 20° | 10503 | 10435 | 10357 |
| 25° | 10428 | 10358 | 10238 |
| 30° | 10316 | 10242 | 10095 |
| 35° | 10164 | 10075 | 9931  |
| 40° | 9931  | 9825  | 9647  |
| 45° | 9528  | 9361  | 9167  |
| 50° | 8814  | 8602  | 8433  |
| 55° | 7694  | 7518  | 7361  |
| 60° | 6482  | 6429  | 6301  |
| 65° | 5606  | 5628  | 5587  |
| 70° | 5150  | 5177  | 5177  |
| 75° | 4948  | 4948  | 4980  |
| 80° | 4654  | 4707  | 4654  |
| 85° | 3747  | 4171  | 4171  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.0  | 1.8       |
| 10°-20°   | 309.1  | 5.3       |
| 20°-30°   | 466.2  | 8.0       |
| 30°-40°   | 555.5  | 9.5       |
| 40°-50°   | 547.7  | 9.4       |
| 50°-60°   | 418.6  | 7.2       |
| 60°-70°   | 259.0  | 4.4       |
| 70°-80°   | 147.1  | 2.5       |
| 80°-90°   | 45.9   | 0.8       |
| 90°-100°  | 216.8  | 3.7       |
| 100°-110° | 596.3  | 10.2      |
| 110°-120° | 615.5  | 10.5      |
| 120°-130° | 493.1  | 8.4       |
| 130°-140° | 387.3  | 6.6       |
| 140°-150° | 296.8  | 5.1       |
| 150°-160° | 213.4  | 3.6       |
| 160°-170° | 130.5  | 2.2       |
| 170°-180° | 44.0   | 0.8       |
| 0°-30°    | 883.4  | 15.1      |
| 0°-40°    | 1438.9 | 24.6      |
| 0°-60°    | 2405.2 | 41.1      |
| 0°-90°    | 2857.3 | 48.8      |
| 90°-120°  | 1428.6 | 24.4      |
| 90°-150°  | 2605.9 | 44.5      |
| 90°-180°  | 2994.0 | 51.2      |
| 0°-180°   | 5851.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1142 | 1142  | 1142 | 1142  | 1142 |      |
| 5°   | 1148 | 1136  | 1140 | 1136  | 1134 | 109  |
| 15°  | 1105 | 1094  | 1098 | 1094  | 1092 | 312  |
| 25°  | 1024 | 1012  | 1018 | 1007  | 1006 | 471  |
| 35°  | 902  | 892   | 894  | 883   | 882  | 563  |
| 45°  | 730  | 721   | 717  | 704   | 703  | 559  |
| 55°  | 478  | 471   | 467  | 460   | 458  | 429  |
| 65°  | 257  | 255   | 258  | 256   | 256  | 260  |
| 75°  | 139  | 139   | 139  | 140   | 140  | 147  |
| 85°  | 35   | 37    | 39   | 39    | 39   | 41   |
| 90°  | 1    | 4     | 7    | 9     | 9    | 4    |
| 95°  | 32   | 118   | 383  | 164   | 105  | 34   |
| 105° | 107  | 164   | 657  | 1001  | 934  | 112  |
| 115° | 189  | 230   | 527  | 1049  | 1191 | 186  |
| 125° | 260  | 296   | 478  | 809   | 948  | 232  |
| 135° | 314  | 348   | 464  | 654   | 740  | 242  |
| 145° | 363  | 388   | 458  | 557   | 600  | 227  |
| 155° | 411  | 424   | 455  | 501   | 515  | 189  |
| 165° | 444  | 450   | 457  | 475   | 478  | 125  |
| 175° | 460  | 460   | 458  | 463   | 462  | 44   |
| 180° | 460  | 460   | 460  | 460   | 460  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1142.5 | 1142.5 | 1142.5 | 1142.5 | 1142.5 |
| 2.5°   | 1149.6 | 1139.6 | 1142.5 | 1140.0 | 1134.6 |
| 5°     | 1148.4 | 1135.9 | 1139.5 | 1135.6 | 1133.6 |
| 7.5°   | 1139.5 | 1127.2 | 1130.9 | 1126.9 | 1125.8 |
| 10°    | 1131.7 | 1120.1 | 1123.8 | 1119.8 | 1117.9 |
| 12.5°  | 1123.0 | 1110.7 | 1115.1 | 1110.4 | 1108.4 |
| 15°    | 1105.1 | 1093.6 | 1098.2 | 1094.2 | 1092.3 |
| 17.5°  | 1085.4 | 1073.1 | 1077.7 | 1073.2 | 1070.7 |
| 20°    | 1069.7 | 1058.1 | 1062.8 | 1055.9 | 1054.9 |
| 22.5°  | 1052.4 | 1040.8 | 1045.5 | 1036.2 | 1036.0 |
| 25°    | 1024.4 | 1011.9 | 1017.5 | 1006.7 | 1005.7 |
| 27.5°  | 991.1  | 979.6  | 984.3  | 973.2  | 972.1  |
| 30°    | 968.3  | 956.8  | 961.4  | 949.6  | 947.6  |
| 32.5°  | 942.3  | 931.6  | 935.4  | 923.6  | 922.5  |
| 35°    | 902.4  | 891.8  | 894.5  | 882.7  | 881.7  |
| 37.5°  | 856.9  | 847.3  | 848.9  | 835.8  | 834.9  |
| 40°    | 824.6  | 815.0  | 815.8  | 802.0  | 801.0  |
| 42.5°  | 789.2  | 779.6  | 778.8  | 765.0  | 764.0  |
| 45°    | 730.2  | 720.6  | 717.4  | 704.5  | 702.6  |
| 47.5°  | 662.9  | 653.2  | 647.3  | 636.9  | 635.5  |
| 50°    | 614.1  | 604.4  | 599.3  | 590.4  | 587.5  |
| 52.5°  | 561.3  | 551.7  | 547.3  | 539.2  | 536.3  |
| 55°    | 478.3  | 470.6  | 467.4  | 459.5  | 457.6  |
| 57.5°  | 399.3  | 394.1  | 393.2  | 385.5  | 384.8  |
| 60°    | 351.3  | 348.4  | 348.4  | 341.5  | 341.5  |
| 62.5°  | 310.4  | 308.3  | 309.8  | 305.2  | 304.5  |
| 65°    | 256.8  | 254.9  | 257.8  | 255.9  | 255.9  |
| 67.5°  | 214.5  | 214.5  | 216.3  | 215.5  | 215.5  |
| 70°    | 190.9  | 190.9  | 191.9  | 191.9  | 191.9  |
| 72.5°  | 169.7  | 168.9  | 171.4  | 171.4  | 170.6  |
| 75°    | 138.8  | 138.8  | 138.8  | 139.7  | 139.7  |
| 77.5°  | 108.0  | 108.2  | 109.0  | 108.8  | 108.0  |
| 80°    | 87.6   | 88.5   | 88.6   | 87.6   | 87.6   |
| 82.5°  | 67.1   | 68.1   | 68.1   | 67.9   | 67.1   |
| 85°    | 35.4   | 37.4   | 39.4   | 39.4   | 39.4   |
| 87.5°  | 10.4   | 14.1   | 17.1   | 17.5   | 16.7   |
| 90°    | 1.0    | 3.8    | 6.8    | 8.8    | 8.8    |
| 92.5°  | 13.5   | 57.7   | 99.9   | 38.4   | 31.5   |
| 95°    | 32.3   | 118.3  | 383.3  | 163.9  | 104.6  |
| 97.5°  | 52.6   | 131.2  | 584.9  | 450.7  | 318.0  |
| 100°   | 67.5   | 139.2  | 648.3  | 654.3  | 533.9  |
| 102.5° | 81.5   | 148.7  | 664.7  | 811.8  | 701.3  |
| 105°   | 106.6  | 163.9  | 657.1  | 1000.7 | 933.8  |
| 107.5° | 130.4  | 182.8  | 619.7  | 1093.2 | 1113.1 |
| 110°   | 147.6  | 195.4  | 591.5  | 1116.2 | 1185.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 163.3 | 209.6 | 563.4 | 1101.4 | 1206.2 |
| 115°   | 188.7 | 229.8 | 527.0 | 1049.4 | 1190.9 |
| 117.5° | 213.0 | 250.8 | 503.9 | 976.5  | 1136.6 |
| 120°   | 227.8 | 264.1 | 493.8 | 921.9  | 1087.3 |
| 122.5° | 241.1 | 277.4 | 486.7 | 874.0  | 1031.0 |
| 125°   | 260.1 | 296.4 | 478.1 | 808.8  | 947.5  |
| 127.5° | 278.1 | 312.7 | 472.5 | 754.5  | 876.1  |
| 130°   | 287.5 | 322.8 | 469.3 | 722.2  | 833.1  |
| 132.5° | 298.4 | 333.8 | 467.0 | 693.8  | 793.9  |
| 135°   | 313.9 | 348.3 | 464.4 | 654.1  | 740.2  |
| 137.5° | 328.3 | 360.3 | 462.3 | 622.1  | 693.0  |
| 140°   | 339.3 | 368.9 | 461.5 | 600.8  | 664.9  |
| 142.5° | 348.7 | 376.0 | 459.9 | 581.8  | 636.7  |
| 145°   | 362.8 | 387.6 | 457.6 | 557.3  | 600.3  |
| 147.5° | 377.8 | 399.2 | 456.4 | 535.6  | 570.0  |
| 150°   | 387.2 | 406.3 | 455.6 | 523.7  | 550.5  |
| 152.5° | 395.8 | 413.4 | 454.9 | 513.4  | 535.6  |
| 155°   | 410.7 | 424.0 | 454.7 | 500.9  | 515.3  |
| 157.5° | 421.4 | 432.3 | 454.7 | 490.7  | 500.6  |
| 160°   | 429.2 | 437.8 | 454.7 | 485.1  | 492.8  |
| 162.5° | 435.5 | 442.6 | 455.4 | 480.4  | 486.5  |
| 165°   | 443.9 | 449.6 | 456.6 | 475.3  | 478.1  |
| 167.5° | 449.8 | 454.2 | 457.6 | 470.9  | 471.7  |
| 170°   | 453.7 | 456.6 | 457.6 | 469.3  | 469.3  |
| 172.5° | 456.8 | 458.2 | 457.6 | 467.0  | 466.2  |
| 175°   | 459.5 | 460.5 | 457.6 | 463.4  | 462.5  |
| 177.5° | 460.3 | 460.3 | 457.2 | 461.9  | 460.3  |
| 180°   | 459.5 | 459.5 | 459.5 | 459.5  | 459.5  |

(END OF REPORT)