

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: P523931

Luminaire Tested: **SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523931  
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-PP3-150U-050D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

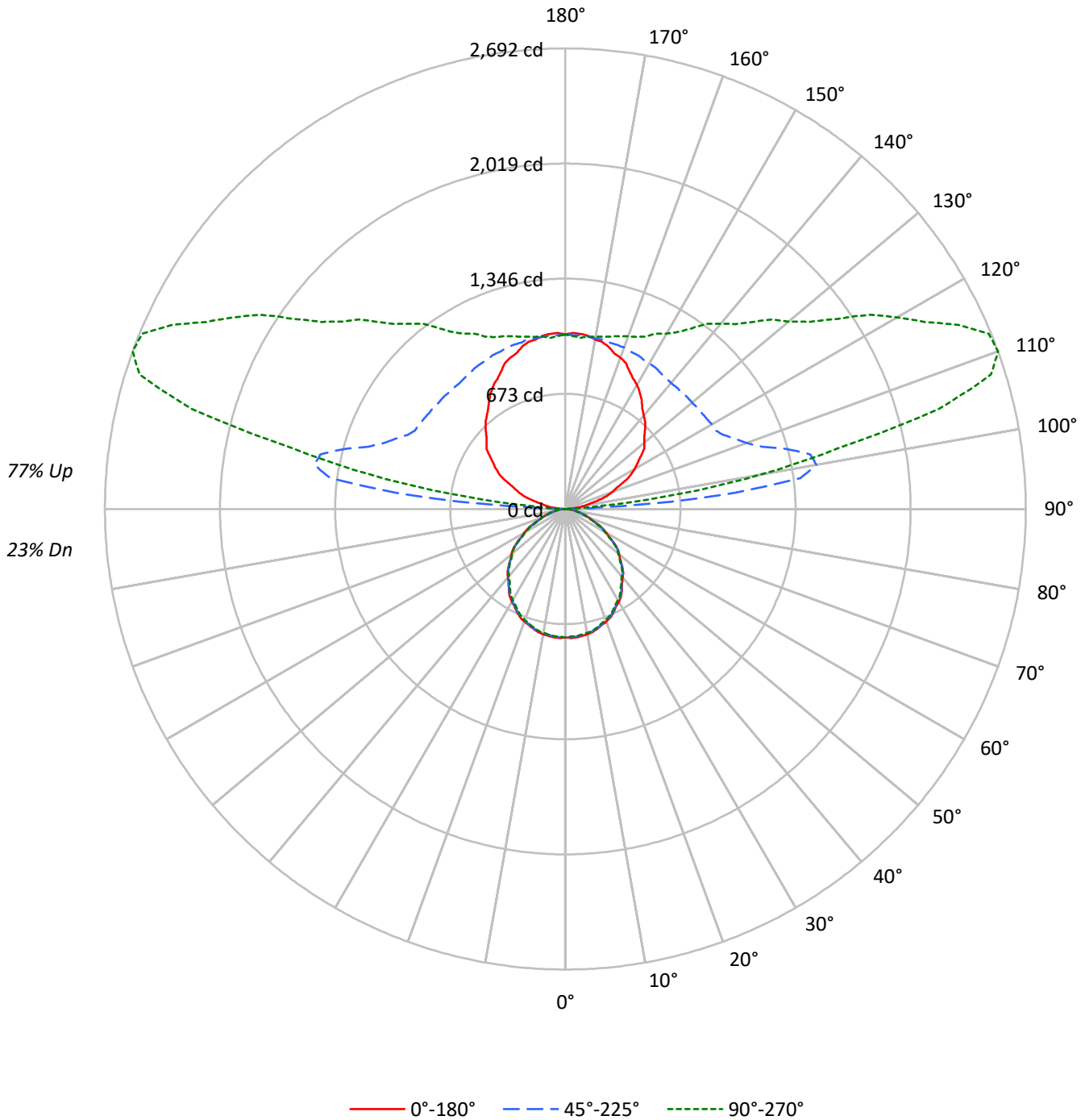
Lumens per Lamp: N/A  
Luminaire Lumens: 8253.7 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 71.6  
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





TEST NUMBER: P523931

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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   | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 68 | 68 | 68 | 49 | 49 | 49 | 32 | 32 | 32 | 23 |    |    |    |   |
| 1   | 92  | 88  | 84  | 81  | 82 | 78 | 75 | 72 | 60 | 58 | 56 | 43 | 42 | 41 | 28 | 27 | 27 | 20 |    |    |    |   |
| 2   | 84  | 77  | 71  | 66  | 74 | 68 | 63 | 59 | 53 | 49 | 47 | 38 | 36 | 34 | 25 | 24 | 23 | 17 |    |    |    |   |
| 3   | 76  | 67  | 60  | 55  | 68 | 60 | 54 | 50 | 46 | 42 | 39 | 34 | 31 | 29 | 22 | 21 | 19 | 14 |    |    |    |   |
| 4   | 70  | 60  | 52  | 46  | 62 | 53 | 47 | 42 | 41 | 37 | 33 | 30 | 27 | 25 | 20 | 18 | 17 | 12 |    |    |    |   |
| 5   | 64  | 53  | 45  | 39  | 57 | 47 | 41 | 36 | 37 | 32 | 29 | 27 | 24 | 21 | 18 | 16 | 15 | 11 |    |    |    |   |
| 6   | 59  | 47  | 40  | 34  | 52 | 42 | 36 | 31 | 33 | 28 | 25 | 24 | 21 | 19 | 16 | 14 | 13 | 9  |    |    |    |   |
| 7   | 54  | 42  | 35  | 30  | 48 | 38 | 32 | 27 | 30 | 25 | 22 | 22 | 19 | 16 | 15 | 13 | 11 | 8  |    |    |    |   |
| 8   | 50  | 38  | 31  | 26  | 44 | 34 | 28 | 24 | 27 | 22 | 19 | 20 | 17 | 15 | 13 | 11 | 10 | 7  |    |    |    |   |
| 9   | 47  | 35  | 28  | 23  | 41 | 31 | 25 | 21 | 25 | 20 | 17 | 18 | 15 | 13 | 12 | 10 | 9  | 7  |    |    |    |   |
| 10  | 43  | 32  | 25  | 20  | 38 | 29 | 23 | 19 | 23 | 18 | 15 | 17 | 14 | 12 | 11 | 10 | 8  | 6  |    |    |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6927 | 6927 | 6927 |
| 5°  | 6978 | 6935 | 6911 |
| 10° | 6966 | 6917 | 6886 |
| 15° | 6920 | 6882 | 6845 |
| 20° | 6874 | 6836 | 6783 |
| 25° | 6792 | 6745 | 6678 |
| 30° | 6667 | 6632 | 6548 |
| 35° | 6492 | 6448 | 6366 |
| 40° | 6285 | 6245 | 6174 |
| 45° | 6113 | 6070 | 6010 |
| 50° | 5894 | 5856 | 5799 |
| 55° | 5588 | 5514 | 5472 |
| 60° | 5087 | 4942 | 4918 |
| 65° | 4482 | 4294 | 4281 |
| 70° | 3868 | 3709 | 3709 |
| 75° | 3329 | 3283 | 3237 |
| 80° | 2938 | 2970 | 2901 |
| 85° | 2297 | 2509 | 2509 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.0   | 0.9       |
| 10°-20°   | 202.7  | 2.5       |
| 20°-30°   | 303.6  | 3.7       |
| 30°-40°   | 356.1  | 4.3       |
| 40°-50°   | 357.3  | 4.3       |
| 50°-60°   | 304.8  | 3.7       |
| 60°-70°   | 198.8  | 2.4       |
| 70°-80°   | 99.7   | 1.2       |
| 80°-90°   | 27.6   | 0.3       |
| 90°-100°  | 464.5  | 5.6       |
| 100°-110° | 1321.7 | 16.0      |
| 110°-120° | 1266.3 | 15.3      |
| 120°-130° | 1002.2 | 12.1      |
| 130°-140° | 804.5  | 9.7       |
| 140°-150° | 629.8  | 7.6       |
| 150°-160° | 460.8  | 5.6       |
| 160°-170° | 285.4  | 3.5       |
| 170°-180° | 96.9   | 1.2       |
| 0°-30°    | 577.3  | 7.0       |
| 0°-40°    | 933.5  | 11.3      |
| 0°-60°    | 1595.5 | 19.3      |
| 0°-90°    | 1921.6 | 23.3      |
| 90°-120°  | 3052.5 | 37.0      |
| 90°-150°  | 5489.0 | 66.5      |
| 90°-180°  | 6332.0 | 76.7      |
| 0°-180°   | 8253.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 751  | 751   | 751  | 751   | 751  |      |
| 5°   | 753  | 746   | 749  | 746   | 746  | 72   |
| 15°  | 724  | 717   | 720  | 718   | 717  | 204  |
| 25°  | 667  | 660   | 663  | 657   | 656  | 307  |
| 35°  | 576  | 571   | 572  | 566   | 565  | 360  |
| 45°  | 468  | 465   | 465  | 461   | 461  | 361  |
| 55°  | 347  | 346   | 343  | 341   | 340  | 309  |
| 65°  | 205  | 201   | 197  | 195   | 196  | 205  |
| 75°  | 93   | 93    | 92   | 91    | 91   | 101  |
| 85°  | 22   | 24    | 24   | 24    | 24   | 26   |
| 90°  | 0    | 0     | 0    | 0     | 0    | 3    |
| 95°  | 50   | 200   | 899  | 311   | 192  | 58   |
| 105° | 205  | 312   | 1347 | 2379  | 2262 | 217  |
| 115° | 382  | 461   | 1021 | 2164  | 2541 | 376  |
| 125° | 539  | 598   | 975  | 1618  | 1934 | 482  |
| 135° | 659  | 714   | 963  | 1366  | 1545 | 508  |
| 145° | 777  | 817   | 971  | 1183  | 1289 | 485  |
| 155° | 888  | 908   | 994  | 1069  | 1112 | 410  |
| 165° | 981  | 984   | 1006 | 1028  | 1043 | 276  |
| 175° | 1027 | 1022  | 1018 | 1012  | 1004 | 97   |
| 180° | 1019 | 1019  | 1019 | 1019  | 1019 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°    | 67.5°  | 90°    |
|--------|-------|-------|--------|--------|--------|
| 0°     | 750.8 | 750.8 | 750.8  | 750.8  | 750.8  |
| 2.5°   | 755.5 | 749.4 | 750.8  | 749.7  | 746.6  |
| 5°     | 753.4 | 746.3 | 748.8  | 746.2  | 746.2  |
| 7.5°   | 748.3 | 740.6 | 743.0  | 740.4  | 740.3  |
| 10°    | 743.6 | 735.8 | 738.3  | 735.6  | 735.0  |
| 12.5°  | 736.7 | 729.0 | 732.0  | 728.8  | 728.7  |
| 15°    | 724.5 | 717.4 | 720.5  | 717.9  | 716.6  |
| 17.5°  | 710.7 | 702.9 | 706.7  | 703.0  | 702.5  |
| 20°    | 700.1 | 692.4 | 696.2  | 690.9  | 690.9  |
| 22.5°  | 687.5 | 679.8 | 684.1  | 677.2  | 677.2  |
| 25°    | 667.2 | 659.5 | 662.6  | 656.7  | 656.0  |
| 27.5°  | 643.1 | 635.5 | 638.8  | 632.1  | 632.0  |
| 30°    | 625.8 | 618.7 | 622.5  | 615.2  | 614.6  |
| 32.5°  | 606.8 | 600.3 | 603.0  | 595.7  | 595.1  |
| 35°    | 576.4 | 570.6 | 572.5  | 565.9  | 565.2  |
| 37.5°  | 544.4 | 538.5 | 540.6  | 535.0  | 534.7  |
| 40°    | 521.8 | 517.9 | 518.5  | 513.9  | 512.6  |
| 42.5°  | 500.7 | 496.4 | 496.9  | 492.3  | 492.1  |
| 45°    | 468.5 | 465.3 | 465.2  | 460.6  | 460.6  |
| 47.5°  | 434.3 | 431.8 | 431.1  | 427.3  | 427.2  |
| 50°    | 410.6 | 408.7 | 408.0  | 404.7  | 404.0  |
| 52.5°  | 385.9 | 385.0 | 382.7  | 379.9  | 379.8  |
| 55°    | 347.4 | 346.1 | 342.8  | 340.8  | 340.2  |
| 57.5°  | 305.7 | 303.1 | 299.4  | 296.5  | 297.0  |
| 60°    | 275.7 | 273.1 | 267.8  | 266.5  | 266.5  |
| 62.5°  | 246.8 | 243.7 | 238.3  | 236.5  | 237.5  |
| 65°    | 205.3 | 201.4 | 196.7  | 195.4  | 196.1  |
| 67.5°  | 167.7 | 164.2 | 159.1  | 159.1  | 158.6  |
| 70°    | 143.4 | 141.5 | 137.5  | 137.5  | 137.5  |
| 72.5°  | 121.9 | 121.0 | 118.0  | 118.0  | 117.5  |
| 75°    | 93.4  | 93.4  | 92.1   | 91.4   | 90.8   |
| 77.5°  | 70.0  | 70.3  | 69.6   | 68.9   | 67.8   |
| 80°    | 55.3  | 56.6  | 55.9   | 55.3   | 54.6   |
| 82.5°  | 41.6  | 42.9  | 42.8   | 41.6   | 41.5   |
| 85°    | 21.7  | 23.6  | 23.7   | 23.7   | 23.7   |
| 87.5°  | 5.8   | 7.8   | 8.4    | 8.4    | 8.9    |
| 90°    | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    |
| 92.5°  | 15.5  | 82.2  | 190.7  | 55.5   | 41.9   |
| 95°    | 50.4  | 200.1 | 899.2  | 311.2  | 191.9  |
| 97.5°  | 92.6  | 234.4 | 1384.9 | 991.0  | 679.1  |
| 100°   | 122.1 | 254.7 | 1490.3 | 1509.6 | 1162.8 |
| 102.5° | 154.7 | 276.7 | 1467.1 | 1932.3 | 1629.5 |
| 105°   | 205.4 | 311.5 | 1346.9 | 2379.1 | 2261.7 |
| 107.5° | 257.0 | 352.1 | 1206.6 | 2505.1 | 2609.7 |
| 110°   | 292.6 | 381.7 | 1126.0 | 2456.9 | 2691.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 326.7  | 411.3  | 1071.7 | 2342.9 | 2677.9 |
| 115°   | 381.8  | 461.4  | 1021.3 | 2163.6 | 2540.7 |
| 117.5° | 430.2  | 504.9  | 991.5  | 1967.6 | 2367.1 |
| 120°   | 469.0  | 531.5  | 988.4  | 1855.6 | 2238.4 |
| 122.5° | 500.0  | 562.5  | 980.6  | 1757.3 | 2112.8 |
| 125°   | 538.8  | 597.5  | 974.8  | 1617.7 | 1934.1 |
| 127.5° | 581.0  | 636.0  | 971.7  | 1534.2 | 1795.0 |
| 130°   | 602.7  | 657.7  | 967.1  | 1476.1 | 1703.5 |
| 132.5° | 626.0  | 679.4  | 967.1  | 1430.7 | 1639.9 |
| 135°   | 658.9  | 713.9  | 963.2  | 1366.5 | 1544.6 |
| 137.5° | 689.9  | 743.4  | 962.8  | 1312.0 | 1465.9 |
| 140°   | 713.2  | 768.1  | 961.3  | 1266.9 | 1414.7 |
| 142.5° | 739.5  | 785.4  | 965.9  | 1230.9 | 1363.6 |
| 145°   | 777.1  | 816.9  | 970.9  | 1182.7 | 1288.8 |
| 147.5° | 809.3  | 848.0  | 979.5  | 1133.9 | 1225.6 |
| 150°   | 837.2  | 863.7  | 982.6  | 1117.8 | 1182.2 |
| 152.5° | 858.9  | 887.0  | 985.7  | 1095.9 | 1155.8 |
| 155°   | 887.6  | 908.5  | 994.2  | 1068.8 | 1112.4 |
| 157.5° | 923.3  | 935.8  | 996.1  | 1056.5 | 1087.6 |
| 160°   | 941.9  | 951.3  | 1003.9 | 1047.1 | 1073.7 |
| 162.5° | 952.7  | 963.7  | 1005.4 | 1039.2 | 1059.7 |
| 165°   | 980.6  | 984.4  | 1005.8 | 1027.5 | 1042.6 |
| 167.5° | 999.6  | 996.2  | 1014.7 | 1024.6 | 1030.6 |
| 170°   | 1005.8 | 1003.9 | 1011.6 | 1013.7 | 1021.3 |
| 172.5° | 1019.8 | 1013.3 | 1016.3 | 1010.6 | 1016.7 |
| 175°   | 1027.1 | 1021.5 | 1017.5 | 1011.5 | 1003.9 |
| 177.5° | 1030.2 | 1021.1 | 1016.3 | 1010.1 | 1011.6 |
| 180°   | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 |

(END OF REPORT)