

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: P562608

Luminaire Tested: **SQ4-PC3-050U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562608  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-050U-050D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

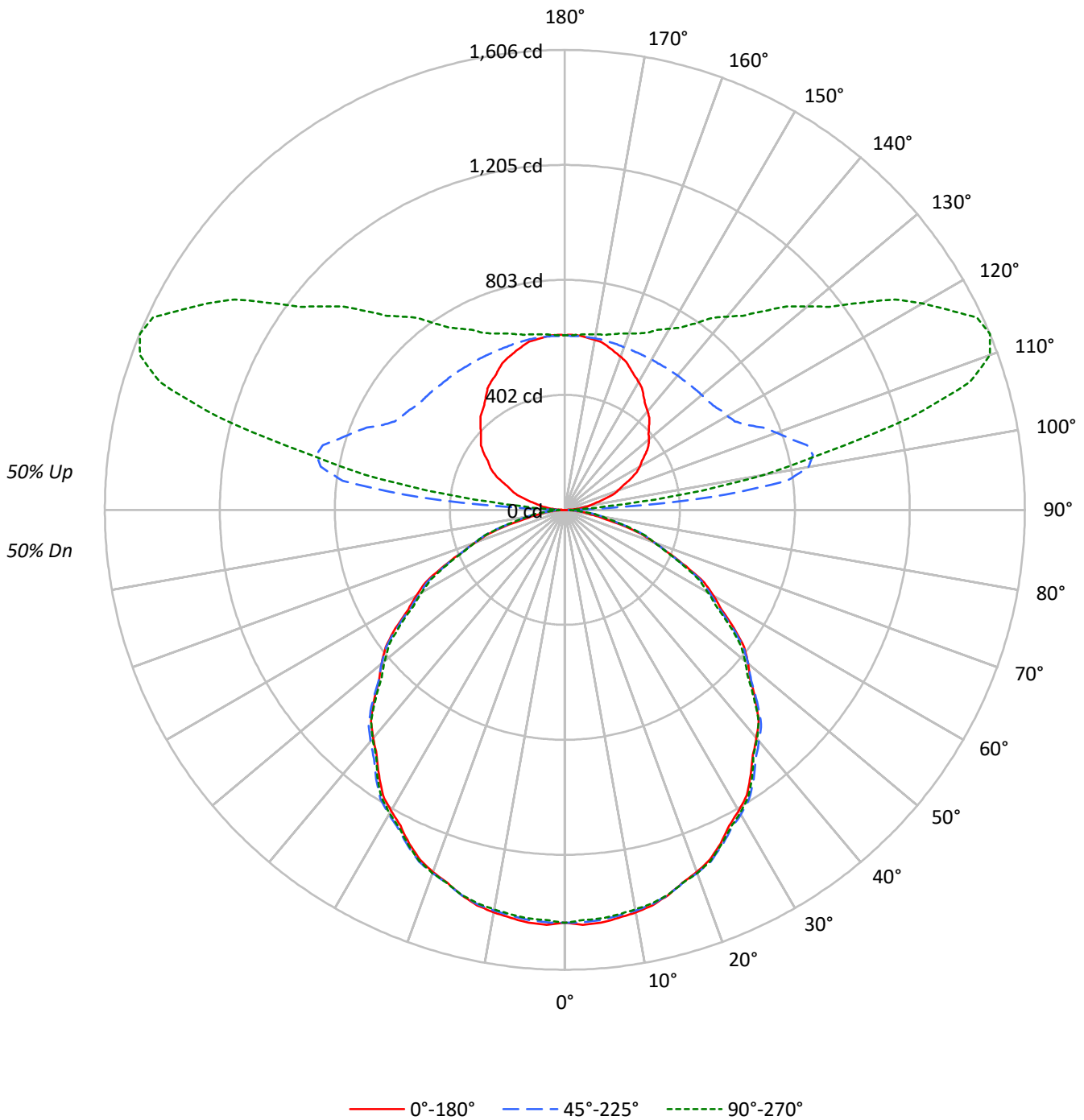
Lumens per Lamp: N/A  
Luminaire Lumens: 7922.1 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 58.9  
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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1   | 98  | 93  | 90  | 86  | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 61 | 59 | 58 | 49 | 48 | 47 | 42 |
| 2   | 89  | 82  | 76  | 70  | 82 | 75 | 70 | 66 | 64 | 60 | 57 | 53 | 51 | 48 | 44 | 42 | 40 | 35 |
| 3   | 81  | 72  | 64  | 59  | 75 | 66 | 60 | 55 | 56 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 | 30 |
| 4   | 74  | 63  | 56  | 49  | 68 | 59 | 52 | 46 | 50 | 45 | 41 | 42 | 38 | 35 | 34 | 32 | 29 | 25 |
| 5   | 68  | 56  | 48  | 42  | 63 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6   | 63  | 51  | 42  | 37  | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 19 |
| 7   | 58  | 46  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 26 | 22 | 20 | 17 |
| 8   | 54  | 41  | 34  | 28  | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 22 | 18 | 16 | 14 |
| 10  | 47  | 35  | 27  | 23  | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6653 | 6653 | 6653 |
| 5°  | 6703 | 6660 | 6635 |
| 10° | 6687 | 6655 | 6637 |
| 15° | 6652 | 6652 | 6645 |
| 20° | 6608 | 6627 | 6627 |
| 25° | 6545 | 6593 | 6573 |
| 30° | 6466 | 6544 | 6516 |
| 35° | 6369 | 6467 | 6422 |
| 40° | 6264 | 6353 | 6288 |
| 45° | 6150 | 6194 | 6098 |
| 50° | 5990 | 5990 | 5894 |
| 55° | 5800 | 5724 | 5638 |
| 60° | 5519 | 5408 | 5323 |
| 65° | 5102 | 4999 | 4956 |
| 70° | 4467 | 4502 | 4485 |
| 75° | 3593 | 3975 | 3998 |
| 80° | 2553 | 3371 | 3406 |
| 85° | 1556 | 2826 | 2826 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.5  | 1.7       |
| 10°-20°   | 391.7  | 4.9       |
| 20°-30°   | 593.1  | 7.5       |
| 30°-40°   | 711.1  | 9.0       |
| 40°-50°   | 725.1  | 9.2       |
| 50°-60°   | 632.9  | 8.0       |
| 60°-70°   | 453.1  | 5.7       |
| 70°-80°   | 233.4  | 2.9       |
| 80°-90°   | 61.4   | 0.8       |
| 90°-100°  | 292.9  | 3.7       |
| 100°-110° | 795.7  | 10.0      |
| 110°-120° | 818.1  | 10.3      |
| 120°-130° | 654.1  | 8.3       |
| 130°-140° | 513.9  | 6.5       |
| 140°-150° | 394.1  | 5.0       |
| 150°-160° | 283.4  | 3.6       |
| 160°-170° | 173.3  | 2.2       |
| 170°-180° | 58.4   | 0.7       |
| 0°-30°    | 1121.3 | 14.2      |
| 0°-40°    | 1832.4 | 23.1      |
| 0°-60°    | 3190.4 | 40.3      |
| 0°-90°    | 3938.2 | 49.7      |
| 90°-120°  | 1906.7 | 24.1      |
| 90°-150°  | 3468.7 | 43.8      |
| 90°-180°  | 3984.0 | 50.3      |
| 0°-180°   | 7922.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1442 | 1442  | 1442 | 1442  | 1442 |      |
| 5°   | 1448 | 1433  | 1438 | 1434  | 1433 | 137  |
| 15°  | 1393 | 1381  | 1393 | 1393  | 1391 | 393  |
| 25°  | 1286 | 1277  | 1295 | 1291  | 1291 | 592  |
| 35°  | 1131 | 1128  | 1148 | 1140  | 1140 | 707  |
| 45°  | 943  | 940   | 949  | 937   | 935  | 726  |
| 55°  | 721  | 712   | 712  | 701   | 701  | 643  |
| 65°  | 467  | 457   | 458  | 454   | 454  | 462  |
| 75°  | 202  | 211   | 223  | 224   | 224  | 218  |
| 85°  | 29   | 45    | 53   | 55    | 53   | 40   |
| 90°  | 2    | 8     | 14   | 18    | 18   | 4    |
| 95°  | 43   | 160   | 510  | 222   | 149  | 46   |
| 105° | 141  | 220   | 875  | 1332  | 1254 | 150  |
| 115° | 251  | 305   | 700  | 1393  | 1587 | 248  |
| 125° | 345  | 393   | 634  | 1068  | 1260 | 308  |
| 135° | 416  | 462   | 616  | 870   | 981  | 322  |
| 145° | 481  | 515   | 608  | 739   | 795  | 302  |
| 155° | 543  | 563   | 604  | 664   | 683  | 251  |
| 165° | 589  | 596   | 606  | 632   | 634  | 166  |
| 175° | 610  | 612   | 608  | 616   | 614  | 58   |
| 180° | 610  | 610   | 610  | 610   | 610  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 |
| 2.5°   | 1450.7 | 1438.2 | 1442.2 | 1438.8 | 1433.6 |
| 5°     | 1447.5 | 1433.1 | 1438.2 | 1434.1 | 1432.8 |
| 7.5°   | 1437.1 | 1422.7 | 1429.3 | 1426.6 | 1425.3 |
| 10°    | 1427.5 | 1413.1 | 1420.8 | 1418.1 | 1416.8 |
| 12.5°  | 1414.7 | 1401.3 | 1410.1 | 1407.4 | 1407.2 |
| 15°    | 1392.8 | 1381.0 | 1392.8 | 1392.7 | 1391.4 |
| 17.5°  | 1365.2 | 1354.5 | 1367.1 | 1367.9 | 1367.1 |
| 20°    | 1346.0 | 1334.3 | 1350.0 | 1348.7 | 1350.0 |
| 22.5°  | 1322.5 | 1312.9 | 1329.7 | 1326.3 | 1327.6 |
| 25°    | 1285.9 | 1276.8 | 1295.3 | 1291.3 | 1291.3 |
| 27.5°  | 1242.7 | 1236.1 | 1256.3 | 1252.0 | 1252.0 |
| 30°    | 1213.8 | 1207.3 | 1228.5 | 1223.2 | 1223.2 |
| 32.5°  | 1181.8 | 1177.3 | 1197.5 | 1191.1 | 1191.1 |
| 35°    | 1131.0 | 1128.4 | 1148.4 | 1140.4 | 1140.4 |
| 37.5°  | 1078.7 | 1076.3 | 1094.4 | 1084.8 | 1081.6 |
| 40°    | 1040.2 | 1038.9 | 1054.9 | 1044.2 | 1044.2 |
| 42.5°  | 1001.8 | 1000.5 | 1014.3 | 1001.5 | 1001.5 |
| 45°    | 942.7  | 940.1  | 949.4  | 937.3  | 934.7  |
| 47.5°  | 878.4  | 875.8  | 881.6  | 868.5  | 867.2  |
| 50°    | 834.6  | 832.0  | 834.6  | 822.5  | 821.2  |
| 52.5°  | 789.7  | 785.0  | 785.4  | 773.4  | 773.2  |
| 55°    | 721.1  | 711.9  | 711.7  | 701.0  | 701.0  |
| 57.5°  | 648.4  | 636.4  | 637.5  | 628.4  | 627.1  |
| 60°    | 598.2  | 585.2  | 586.2  | 578.2  | 576.9  |
| 62.5°  | 549.1  | 533.9  | 537.1  | 528.0  | 527.7  |
| 65°    | 467.4  | 456.9  | 458.0  | 454.0  | 454.0  |
| 67.5°  | 388.8  | 379.2  | 386.2  | 383.0  | 382.7  |
| 70°    | 331.2  | 324.6  | 333.8  | 333.8  | 332.5  |
| 72.5°  | 277.7  | 277.5  | 289.0  | 289.0  | 289.8  |
| 75°    | 201.6  | 210.8  | 223.0  | 224.3  | 224.3  |
| 77.5°  | 134.6  | 150.8  | 164.2  | 164.8  | 164.5  |
| 80°    | 96.1   | 114.4  | 126.9  | 129.5  | 128.2  |
| 82.5°  | 65.2   | 84.5   | 94.8   | 97.4   | 96.1   |
| 85°    | 29.4   | 45.0   | 53.4   | 54.7   | 53.4   |
| 87.5°  | 8.9    | 19.5   | 24.1   | 24.8   | 22.8   |
| 90°    | 2.0    | 7.7    | 13.7   | 17.7   | 17.7   |
| 92.5°  | 17.7   | 80.2   | 139.3  | 59.8   | 50.6   |
| 95°    | 43.2   | 160.2  | 510.1  | 222.0  | 149.1  |
| 97.5°  | 71.4   | 176.9  | 782.0  | 608.4  | 427.3  |
| 100°   | 90.2   | 188.1  | 865.2  | 877.1  | 708.2  |
| 102.5° | 109.1  | 199.2  | 887.2  | 1084.7 | 935.8  |
| 105°   | 141.3  | 219.9  | 875.0  | 1332.3 | 1253.6 |
| 107.5° | 174.6  | 244.1  | 824.4  | 1460.1 | 1482.0 |
| 110°   | 198.2  | 261.5  | 786.7  | 1485.3 | 1579.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 218.6 | 278.8 | 749.1 | 1464.4 | 1606.0 |
| 115°   | 251.1 | 304.8 | 700.4 | 1393.4 | 1587.2 |
| 117.5° | 281.7 | 333.1 | 669.4 | 1292.7 | 1511.0 |
| 120°   | 302.1 | 352.0 | 655.3 | 1225.2 | 1442.0 |
| 122.5° | 319.4 | 369.3 | 645.9 | 1157.6 | 1366.7 |
| 125°   | 345.3 | 393.3 | 633.7 | 1067.7 | 1259.5 |
| 127.5° | 368.4 | 416.0 | 627.0 | 999.6  | 1164.2 |
| 130°   | 382.6 | 428.6 | 623.9 | 956.8  | 1104.5 |
| 132.5° | 396.7 | 442.7 | 620.7 | 920.4  | 1051.2 |
| 135°   | 415.9 | 462.0 | 616.0 | 869.7  | 980.9  |
| 137.5° | 436.7 | 478.5 | 613.7 | 824.9  | 918.6  |
| 140°   | 449.3 | 489.6 | 612.1 | 796.5  | 880.9  |
| 142.5° | 461.8 | 499.0 | 610.5 | 774.2  | 844.8  |
| 145°   | 480.7 | 515.2 | 608.2 | 738.9  | 794.6  |
| 147.5° | 501.9 | 531.4 | 606.2 | 711.2  | 754.9  |
| 150°   | 516.0 | 540.9 | 606.2 | 695.3  | 729.8  |
| 152.5° | 527.0 | 548.8 | 604.7 | 681.0  | 709.4  |
| 155°   | 543.4 | 562.6 | 604.3 | 663.6  | 682.7  |
| 157.5° | 559.5 | 574.5 | 604.3 | 651.7  | 666.3  |
| 160°   | 568.9 | 582.4 | 604.3 | 643.8  | 655.3  |
| 162.5° | 578.4 | 588.7 | 605.8 | 637.4  | 645.9  |
| 165°   | 588.6 | 596.2 | 606.2 | 631.8  | 633.7  |
| 167.5° | 599.2 | 603.0 | 608.2 | 625.1  | 626.6  |
| 170°   | 602.3 | 606.1 | 608.2 | 621.9  | 621.9  |
| 172.5° | 605.4 | 607.7 | 608.2 | 618.8  | 618.8  |
| 175°   | 610.1 | 612.1 | 608.2 | 616.0  | 614.1  |
| 177.5° | 611.7 | 611.7 | 607.0 | 613.2  | 610.1  |
| 180°   | 610.1 | 610.1 | 610.1 | 610.1  | 610.1  |

(END OF REPORT)