

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: P563078

Luminaire Tested: **SQ4-PC3-125U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563078
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

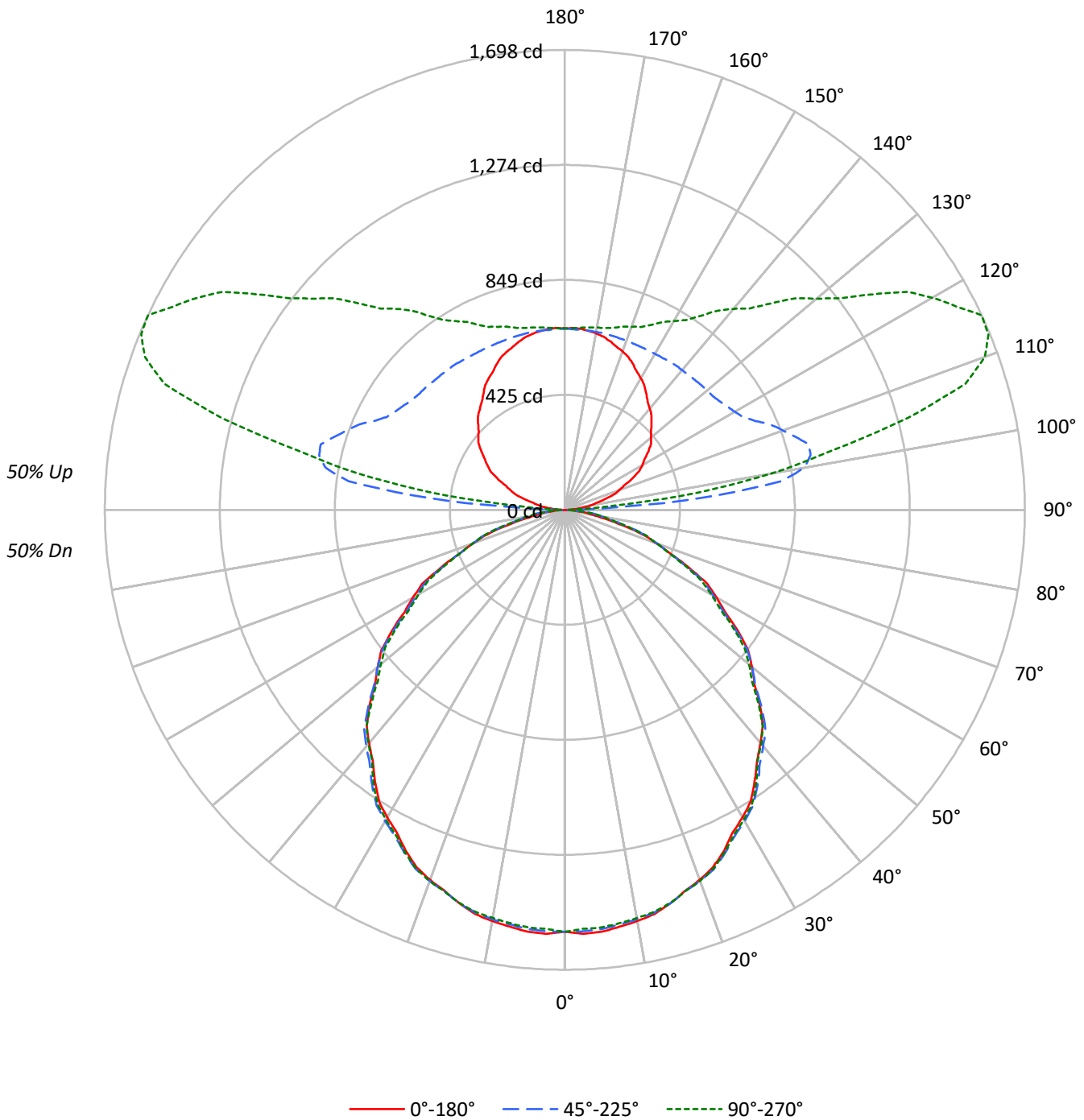
Lumens per Lamp: N/A
Luminaire Lumens: 8575.1 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
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 | 57 | 49 | 48 | 47 | 42 |
| 2 | 89 | 82 | 75 | 70 | 82 | 75 | 70 | 66 | 64 | 60 | 57 | 53 | 50 | 48 | 43 | 42 | 40 | 35 |
| 3 | 81 | 72 | 64 | 59 | 75 | 66 | 60 | 55 | 56 | 52 | 48 | 47 | 44 | 41 | 38 | 36 | 34 | 30 |
| 4 | 74 | 63 | 56 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 35 | 34 | 31 | 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° | 14374 | 14374 | 14374 |
| 5° | 14481 | 14388 | 14335 |
| 10° | 14446 | 14379 | 14338 |
| 15° | 14370 | 14370 | 14356 |
| 20° | 14276 | 14318 | 14318 |
| 25° | 14141 | 14244 | 14200 |
| 30° | 13969 | 14138 | 14076 |
| 35° | 13761 | 13972 | 13875 |
| 40° | 13534 | 13724 | 13586 |
| 45° | 13288 | 13382 | 13174 |
| 50° | 12940 | 12940 | 12733 |
| 55° | 12529 | 12366 | 12181 |
| 60° | 11924 | 11684 | 11498 |
| 65° | 11022 | 10802 | 10706 |
| 70° | 9649 | 9727 | 9690 |
| 75° | 7764 | 8587 | 8637 |
| 80° | 5520 | 7279 | 7359 |
| 85° | 3356 | 6108 | 6108 |



TEST NUMBER: P563078

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 147.4 | 1.7 |
| 10°-20° | 423.1 | 4.9 |
| 20°-30° | 640.7 | 7.5 |
| 30°-40° | 768.1 | 9.0 |
| 40°-50° | 783.2 | 9.1 |
| 50°-60° | 683.7 | 8.0 |
| 60°-70° | 489.5 | 5.7 |
| 70°-80° | 252.1 | 2.9 |
| 80°-90° | 65.3 | 0.8 |
| 90°-100° | 313.2 | 3.7 |
| 100°-110° | 843.6 | 9.8 |
| 110°-120° | 885.4 | 10.3 |
| 120°-130° | 718.5 | 8.4 |
| 130°-140° | 563.5 | 6.6 |
| 140°-150° | 432.6 | 5.0 |
| 150°-160° | 311.0 | 3.6 |
| 160°-170° | 190.0 | 2.2 |
| 170°-180° | 64.1 | 0.7 |
| 0°-30° | 1211.2 | 14.1 |
| 0°-40° | 1979.4 | 23.1 |
| 0°-60° | 3446.3 | 40.2 |
| 0°-90° | 4253.3 | 49.6 |
| 90°-120° | 2042.2 | 23.8 |
| 90°-150° | 3756.7 | 43.8 |
| 90°-180° | 4322.0 | 50.4 |
| 0°-180° | 8575.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1558 | 1558 | 1558 | 1558 | 1558 | |
| 5° | 1564 | 1548 | 1554 | 1549 | 1548 | 148 |
| 15° | 1504 | 1492 | 1504 | 1504 | 1503 | 424 |
| 25° | 1389 | 1379 | 1399 | 1395 | 1395 | 639 |
| 35° | 1222 | 1219 | 1240 | 1232 | 1232 | 764 |
| 45° | 1018 | 1016 | 1026 | 1012 | 1010 | 784 |
| 55° | 779 | 769 | 769 | 757 | 757 | 694 |
| 65° | 505 | 494 | 495 | 490 | 490 | 499 |
| 75° | 218 | 228 | 241 | 242 | 242 | 235 |
| 85° | 32 | 49 | 58 | 59 | 58 | 43 |
| 90° | 2 | 5 | 10 | 11 | 11 | 5 |
| 95° | 48 | 170 | 513 | 262 | 182 | 50 |
| 105° | 156 | 243 | 933 | 1396 | 1310 | 164 |
| 115° | 276 | 337 | 777 | 1501 | 1698 | 271 |
| 125° | 376 | 432 | 698 | 1179 | 1388 | 336 |
| 135° | 453 | 505 | 678 | 951 | 1077 | 350 |
| 145° | 524 | 564 | 670 | 813 | 873 | 328 |
| 155° | 594 | 616 | 664 | 730 | 753 | 274 |
| 165° | 645 | 652 | 666 | 693 | 696 | 182 |
| 175° | 670 | 670 | 667 | 676 | 675 | 64 |
| 180° | 670 | 670 | 670 | 670 | 670 | |

TEST NUMBER: P563078

CATALOG NUMBER: SQ4-PC3-125U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1557.9 | 1557.9 | 1557.9 | 1557.9 | 1557.9 |
| 2.5° | 1567.1 | 1553.5 | 1557.9 | 1554.3 | 1548.6 |
| 5° | 1563.6 | 1548.1 | 1553.5 | 1549.2 | 1547.8 |
| 7.5° | 1552.4 | 1536.9 | 1544.0 | 1541.1 | 1539.7 |
| 10° | 1542.0 | 1526.5 | 1534.8 | 1531.9 | 1530.4 |
| 12.5° | 1528.1 | 1513.7 | 1523.2 | 1520.3 | 1520.1 |
| 15° | 1504.5 | 1491.8 | 1504.5 | 1504.4 | 1503.0 |
| 17.5° | 1474.8 | 1463.2 | 1476.8 | 1477.6 | 1476.8 |
| 20° | 1454.0 | 1441.3 | 1458.3 | 1456.9 | 1458.3 |
| 22.5° | 1428.6 | 1418.2 | 1436.4 | 1432.7 | 1434.1 |
| 25° | 1389.1 | 1379.2 | 1399.2 | 1394.9 | 1394.9 |
| 27.5° | 1342.3 | 1335.3 | 1357.1 | 1352.4 | 1352.4 |
| 30° | 1311.2 | 1304.1 | 1327.1 | 1321.3 | 1321.3 |
| 32.5° | 1276.6 | 1271.8 | 1293.6 | 1286.7 | 1286.7 |
| 35° | 1221.8 | 1218.9 | 1240.5 | 1231.9 | 1231.9 |
| 37.5° | 1165.2 | 1162.7 | 1182.2 | 1171.8 | 1168.4 |
| 40° | 1123.7 | 1122.3 | 1139.5 | 1128.0 | 1128.0 |
| 42.5° | 1082.1 | 1080.7 | 1095.7 | 1081.8 | 1081.8 |
| 45° | 1018.4 | 1015.6 | 1025.6 | 1012.5 | 1009.7 |
| 47.5° | 948.8 | 946.0 | 952.3 | 938.1 | 936.7 |
| 50° | 901.5 | 898.7 | 901.5 | 888.5 | 887.1 |
| 52.5° | 853.1 | 848.0 | 848.5 | 835.5 | 835.2 |
| 55° | 778.9 | 769.1 | 768.8 | 757.3 | 757.3 |
| 57.5° | 700.5 | 687.5 | 688.6 | 678.8 | 677.4 |
| 60° | 646.2 | 632.1 | 633.2 | 624.6 | 623.1 |
| 62.5° | 593.1 | 576.8 | 580.2 | 570.3 | 570.1 |
| 65° | 504.9 | 493.6 | 494.8 | 490.4 | 490.4 |
| 67.5° | 420.0 | 409.6 | 417.2 | 413.7 | 413.4 |
| 70° | 357.7 | 350.7 | 360.6 | 360.6 | 359.2 |
| 72.5° | 300.0 | 299.7 | 312.1 | 312.2 | 313.0 |
| 75° | 217.8 | 227.7 | 240.9 | 242.3 | 242.3 |
| 77.5° | 145.4 | 162.9 | 177.4 | 178.0 | 177.7 |
| 80° | 103.9 | 123.6 | 137.0 | 139.9 | 138.5 |
| 82.5° | 70.4 | 91.3 | 102.4 | 105.3 | 103.9 |
| 85° | 31.7 | 48.7 | 57.7 | 59.1 | 57.7 |
| 87.5° | 9.6 | 20.4 | 25.1 | 25.2 | 23.0 |
| 90° | 1.7 | 5.0 | 10.2 | 11.1 | 11.1 |
| 92.5° | 20.8 | 73.5 | 145.3 | 70.0 | 48.6 |
| 95° | 47.8 | 170.3 | 513.4 | 262.5 | 181.7 |
| 97.5° | 76.2 | 195.0 | 805.2 | 672.7 | 507.3 |
| 100° | 98.1 | 204.8 | 898.0 | 939.6 | 779.5 |
| 102.5° | 119.2 | 218.6 | 928.7 | 1139.5 | 1008.0 |
| 105° | 156.1 | 242.8 | 933.0 | 1395.8 | 1309.9 |
| 107.5° | 190.9 | 268.2 | 893.3 | 1527.6 | 1549.8 |
| 110° | 214.1 | 287.4 | 857.1 | 1568.5 | 1649.4 |

TEST NUMBER: P563078

CATALOG NUMBER: SQ4-PC3-125U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 238.6 | 306.7 | 822.3 | 1559.4 | 1692.4 |
| 115° | 275.5 | 337.2 | 776.9 | 1501.2 | 1698.0 |
| 117.5° | 309.1 | 366.9 | 741.8 | 1408.2 | 1627.4 |
| 120° | 330.9 | 386.8 | 724.1 | 1341.5 | 1566.6 |
| 122.5° | 350.0 | 405.2 | 711.1 | 1273.3 | 1497.7 |
| 125° | 376.1 | 432.0 | 697.6 | 1179.1 | 1387.6 |
| 127.5° | 401.2 | 456.2 | 689.1 | 1096.0 | 1282.1 |
| 130° | 416.2 | 471.2 | 685.7 | 1048.4 | 1211.9 |
| 132.5° | 431.2 | 485.6 | 682.3 | 1006.5 | 1156.6 |
| 135° | 452.9 | 505.4 | 678.0 | 951.2 | 1077.1 |
| 137.5° | 473.5 | 523.9 | 675.8 | 904.3 | 1007.7 |
| 140° | 487.8 | 536.2 | 673.7 | 875.4 | 968.8 |
| 142.5° | 502.8 | 547.9 | 672.4 | 848.5 | 927.2 |
| 145° | 523.6 | 564.5 | 669.5 | 813.3 | 873.3 |
| 147.5° | 546.2 | 581.7 | 666.6 | 783.6 | 830.8 |
| 150° | 561.2 | 592.0 | 665.2 | 765.0 | 804.2 |
| 152.5° | 574.8 | 601.7 | 664.5 | 749.8 | 781.7 |
| 155° | 594.4 | 616.1 | 663.5 | 729.7 | 753.0 |
| 157.5° | 611.6 | 628.5 | 663.7 | 715.5 | 731.2 |
| 160° | 622.6 | 636.7 | 664.4 | 707.3 | 718.9 |
| 162.5° | 632.1 | 643.6 | 665.0 | 700.4 | 708.7 |
| 165° | 644.7 | 652.2 | 666.1 | 692.6 | 695.9 |
| 167.5° | 655.0 | 659.3 | 666.9 | 686.6 | 687.9 |
| 170° | 661.8 | 663.5 | 666.9 | 683.1 | 683.1 |
| 172.5° | 665.9 | 666.2 | 667.6 | 679.7 | 679.7 |
| 175° | 670.3 | 669.5 | 666.9 | 676.3 | 674.6 |
| 177.5° | 672.2 | 670.9 | 667.4 | 672.9 | 671.5 |
| 180° | 669.5 | 669.5 | 669.5 | 669.5 | 669.5 |

(END OF REPORT)