

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: P562978

Luminaire Tested: **SQ4-PC3-100U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562978
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

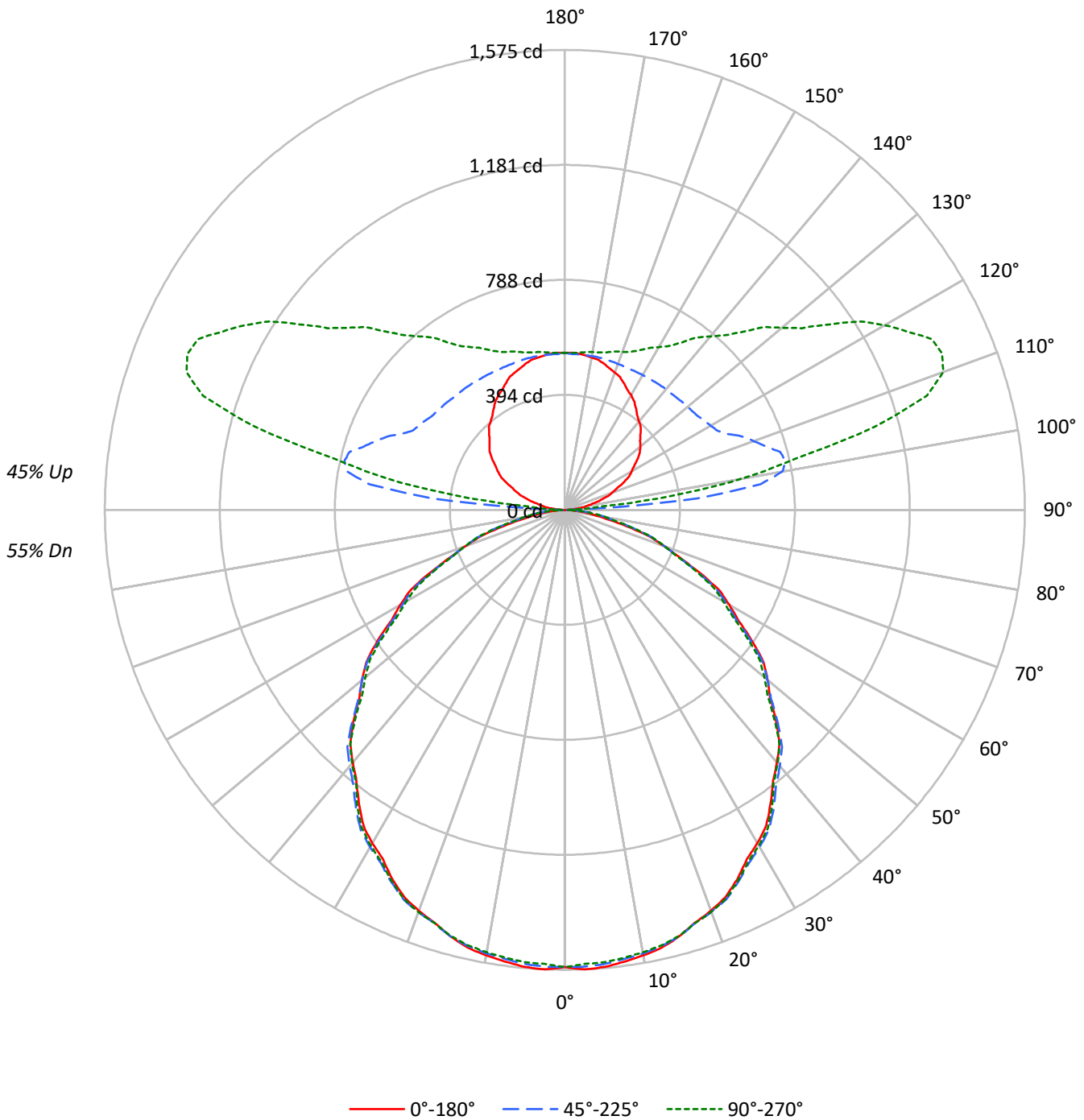
Lumens per Lamp: N/A
Luminaire Lumens: 7764.2 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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 | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | 0 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 | |
| | 1 | 99 | 95 | 91 | 87 | 92 | 88 | 85 | 82 | 76 | 73 | 71 | 64 | 63 | 61 | 54 | 53 | 51 | 47 | |
| | 2 | 90 | 83 | 76 | 71 | 83 | 77 | 72 | 67 | 66 | 62 | 59 | 56 | 54 | 51 | 47 | 45 | 43 | 39 | |
| | 3 | 82 | 73 | 65 | 59 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 | |
| | 4 | 75 | 64 | 56 | 50 | 70 | 60 | 53 | 47 | 52 | 46 | 42 | 44 | 40 | 37 | 37 | 34 | 32 | 28 | |
| | 5 | 69 | 57 | 49 | 43 | 64 | 54 | 46 | 41 | 46 | 41 | 36 | 40 | 35 | 32 | 34 | 30 | 28 | 24 | |
| | 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 42 | 36 | 32 | 36 | 31 | 28 | 31 | 27 | 24 | 21 | |
| | 7 | 59 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 | |
| | 8 | 55 | 42 | 34 | 29 | 51 | 39 | 32 | 27 | 35 | 29 | 25 | 30 | 25 | 22 | 26 | 22 | 19 | 17 | |
| | 9 | 51 | 38 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 15 | |
| | 10 | 47 | 35 | 28 | 23 | 44 | 33 | 26 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 22 | 18 | 16 | 14 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14446 | 14446 | 14446 |
| 5° | 14555 | 14462 | 14408 |
| 10° | 14520 | 14452 | 14412 |
| 15° | 14444 | 14444 | 14430 |
| 20° | 14348 | 14392 | 14392 |
| 25° | 14213 | 14316 | 14272 |
| 30° | 14040 | 14210 | 14148 |
| 35° | 13831 | 14043 | 13945 |
| 40° | 13602 | 13795 | 13655 |
| 45° | 13356 | 13450 | 13242 |
| 50° | 13006 | 13006 | 12798 |
| 55° | 12593 | 12431 | 12244 |
| 60° | 11985 | 11745 | 11557 |
| 65° | 11077 | 10857 | 10761 |
| 70° | 9700 | 9779 | 9738 |
| 75° | 7803 | 8630 | 8684 |
| 80° | 5547 | 7316 | 7396 |
| 85° | 3377 | 6140 | 6140 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.2 | 1.9 |
| 10°-20° | 425.3 | 5.5 |
| 20°-30° | 644.0 | 8.3 |
| 30°-40° | 772.1 | 9.9 |
| 40°-50° | 787.2 | 10.1 |
| 50°-60° | 687.2 | 8.9 |
| 60°-70° | 492.0 | 6.3 |
| 70°-80° | 253.4 | 3.3 |
| 80°-90° | 65.2 | 0.8 |
| 90°-100° | 251.5 | 3.2 |
| 100°-110° | 694.4 | 8.9 |
| 110°-120° | 716.1 | 9.2 |
| 120°-130° | 575.5 | 7.4 |
| 130°-140° | 452.3 | 5.8 |
| 140°-150° | 346.9 | 4.5 |
| 150°-160° | 249.3 | 3.2 |
| 160°-170° | 152.5 | 2.0 |
| 170°-180° | 51.4 | 0.7 |
| 0°-30° | 1217.4 | 15.7 |
| 0°-40° | 1989.5 | 25.6 |
| 0°-60° | 3463.9 | 44.6 |
| 0°-90° | 4274.5 | 55.1 |
| 90°-120° | 1662.0 | 21.4 |
| 90°-150° | 3036.6 | 39.1 |
| 90°-180° | 3490.0 | 44.9 |
| 0°-180° | 7764.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1566 | 1566 | 1566 | 1566 | 1566 | |
| 5° | 1572 | 1556 | 1562 | 1557 | 1556 | 149 |
| 15° | 1512 | 1499 | 1512 | 1512 | 1511 | 426 |
| 25° | 1396 | 1386 | 1406 | 1402 | 1402 | 643 |
| 35° | 1228 | 1225 | 1247 | 1238 | 1238 | 768 |
| 45° | 1024 | 1021 | 1031 | 1018 | 1015 | 788 |
| 55° | 783 | 773 | 773 | 761 | 761 | 698 |
| 65° | 507 | 496 | 497 | 493 | 493 | 502 |
| 75° | 219 | 229 | 242 | 244 | 244 | 237 |
| 85° | 32 | 49 | 58 | 59 | 58 | 43 |
| 90° | 2 | 3 | 7 | 8 | 9 | 4 |
| 95° | 37 | 136 | 456 | 188 | 122 | 40 |
| 105° | 124 | 191 | 764 | 1166 | 1098 | 132 |
| 115° | 222 | 268 | 615 | 1218 | 1385 | 218 |
| 125° | 304 | 346 | 558 | 944 | 1108 | 271 |
| 135° | 366 | 406 | 542 | 764 | 862 | 283 |
| 145° | 424 | 454 | 535 | 651 | 700 | 266 |
| 155° | 479 | 495 | 531 | 584 | 602 | 221 |
| 165° | 518 | 525 | 534 | 554 | 559 | 146 |
| 175° | 537 | 538 | 534 | 542 | 540 | 51 |
| 180° | 537 | 537 | 537 | 537 | 537 | |

TEST NUMBER: P562978

CATALOG NUMBER: SQ4-PC3-100U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 |
| 2.5° | 1575.1 | 1561.5 | 1565.8 | 1562.2 | 1556.5 |
| 5° | 1571.6 | 1556.0 | 1561.5 | 1557.1 | 1555.7 |
| 7.5° | 1560.3 | 1544.7 | 1551.9 | 1549.0 | 1547.5 |
| 10° | 1549.9 | 1534.3 | 1542.6 | 1539.7 | 1538.3 |
| 12.5° | 1535.9 | 1521.5 | 1531.0 | 1528.1 | 1527.8 |
| 15° | 1512.2 | 1499.4 | 1512.2 | 1512.1 | 1510.7 |
| 17.5° | 1482.3 | 1470.7 | 1484.3 | 1485.2 | 1484.3 |
| 20° | 1461.4 | 1448.7 | 1465.8 | 1464.3 | 1465.8 |
| 22.5° | 1435.9 | 1425.4 | 1443.7 | 1440.0 | 1441.4 |
| 25° | 1396.2 | 1386.2 | 1406.3 | 1402.0 | 1402.0 |
| 27.5° | 1349.2 | 1342.1 | 1364.0 | 1359.3 | 1359.3 |
| 30° | 1317.9 | 1310.8 | 1333.8 | 1328.0 | 1328.0 |
| 32.5° | 1283.1 | 1278.3 | 1300.2 | 1293.2 | 1293.2 |
| 35° | 1228.0 | 1225.2 | 1246.8 | 1238.1 | 1238.1 |
| 37.5° | 1171.2 | 1168.6 | 1188.3 | 1177.8 | 1174.4 |
| 40° | 1129.4 | 1128.0 | 1145.4 | 1133.8 | 1133.8 |
| 42.5° | 1087.7 | 1086.2 | 1101.3 | 1087.4 | 1087.4 |
| 45° | 1023.6 | 1020.7 | 1030.8 | 1017.7 | 1014.9 |
| 47.5° | 953.7 | 950.9 | 957.2 | 942.9 | 941.5 |
| 50° | 906.1 | 903.3 | 906.1 | 893.1 | 891.6 |
| 52.5° | 857.4 | 852.3 | 852.8 | 839.7 | 839.4 |
| 55° | 782.9 | 773.0 | 772.8 | 761.2 | 761.2 |
| 57.5° | 704.0 | 691.0 | 692.1 | 682.3 | 680.8 |
| 60° | 649.5 | 635.3 | 636.5 | 627.7 | 626.3 |
| 62.5° | 596.2 | 579.7 | 583.1 | 573.3 | 573.0 |
| 65° | 507.4 | 496.1 | 497.3 | 492.9 | 492.9 |
| 67.5° | 422.2 | 411.7 | 419.3 | 415.8 | 415.5 |
| 70° | 359.6 | 352.5 | 362.5 | 362.4 | 361.0 |
| 72.5° | 301.6 | 301.3 | 313.7 | 313.8 | 314.6 |
| 75° | 218.9 | 228.8 | 242.1 | 243.6 | 243.6 |
| 77.5° | 146.1 | 163.7 | 178.3 | 178.9 | 178.6 |
| 80° | 104.4 | 124.2 | 137.7 | 140.6 | 139.2 |
| 82.5° | 70.8 | 91.7 | 102.9 | 105.8 | 104.4 |
| 85° | 31.9 | 48.9 | 58.0 | 59.4 | 58.0 |
| 87.5° | 9.6 | 20.2 | 24.6 | 24.7 | 22.6 |
| 90° | 1.7 | 3.4 | 6.9 | 7.8 | 8.6 |
| 92.5° | 15.5 | 64.2 | 114.8 | 41.9 | 32.7 |
| 95° | 37.0 | 136.1 | 456.3 | 187.6 | 122.0 |
| 97.5° | 61.2 | 152.4 | 676.0 | 520.4 | 376.9 |
| 100° | 79.1 | 162.2 | 757.1 | 762.4 | 619.6 |
| 102.5° | 96.2 | 173.4 | 772.9 | 942.0 | 806.6 |
| 105° | 123.7 | 191.0 | 764.0 | 1166.3 | 1098.2 |
| 107.5° | 153.0 | 212.8 | 721.3 | 1274.5 | 1299.3 |
| 110° | 173.6 | 227.4 | 688.3 | 1297.7 | 1378.4 |

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CATALOG NUMBER: SQ4-PC3-100U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 192.2 | 243.9 | 657.4 | 1279.4 | 1398.3 |
| 115° | 221.7 | 267.9 | 615.3 | 1218.1 | 1385.3 |
| 117.5° | 247.5 | 293.5 | 587.6 | 1131.8 | 1322.0 |
| 120° | 264.7 | 310.1 | 576.6 | 1073.4 | 1265.0 |
| 122.5° | 281.2 | 324.5 | 567.7 | 1018.8 | 1200.3 |
| 125° | 304.2 | 346.2 | 557.7 | 943.9 | 1107.7 |
| 127.5° | 323.8 | 365.8 | 551.9 | 880.4 | 1021.8 |
| 130° | 336.9 | 378.9 | 549.1 | 841.6 | 970.2 |
| 132.5° | 349.2 | 389.2 | 546.4 | 809.1 | 925.5 |
| 135° | 366.1 | 405.6 | 542.2 | 764.5 | 861.9 |
| 137.5° | 385.0 | 421.0 | 540.2 | 727.0 | 810.2 |
| 140° | 395.3 | 430.6 | 538.8 | 702.0 | 775.1 |
| 142.5° | 407.0 | 439.6 | 537.4 | 679.8 | 744.2 |
| 145° | 424.5 | 453.9 | 535.4 | 650.8 | 700.4 |
| 147.5° | 441.4 | 467.1 | 533.5 | 626.3 | 664.8 |
| 150° | 453.7 | 474.7 | 532.8 | 611.7 | 642.8 |
| 152.5° | 463.4 | 483.0 | 532.1 | 599.2 | 624.9 |
| 155° | 478.7 | 494.6 | 531.1 | 583.9 | 602.4 |
| 157.5° | 492.8 | 505.0 | 531.2 | 572.8 | 585.4 |
| 160° | 501.0 | 511.9 | 531.9 | 566.5 | 575.8 |
| 162.5° | 507.9 | 517.5 | 532.6 | 561.0 | 568.2 |
| 165° | 518.2 | 524.9 | 533.7 | 554.4 | 558.6 |
| 167.5° | 526.1 | 530.1 | 534.5 | 550.4 | 551.7 |
| 170° | 530.2 | 533.6 | 534.5 | 548.3 | 548.3 |
| 172.5° | 533.7 | 535.7 | 534.5 | 545.5 | 544.8 |
| 175° | 537.1 | 537.9 | 534.5 | 542.2 | 540.5 |
| 177.5° | 538.5 | 537.8 | 534.3 | 539.1 | 537.8 |
| 180° | 537.1 | 537.1 | 537.1 | 537.1 | 537.1 |

(END OF REPORT)