

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: P562951

Luminaire Tested: **SQ4-PC3-100U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562951
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-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

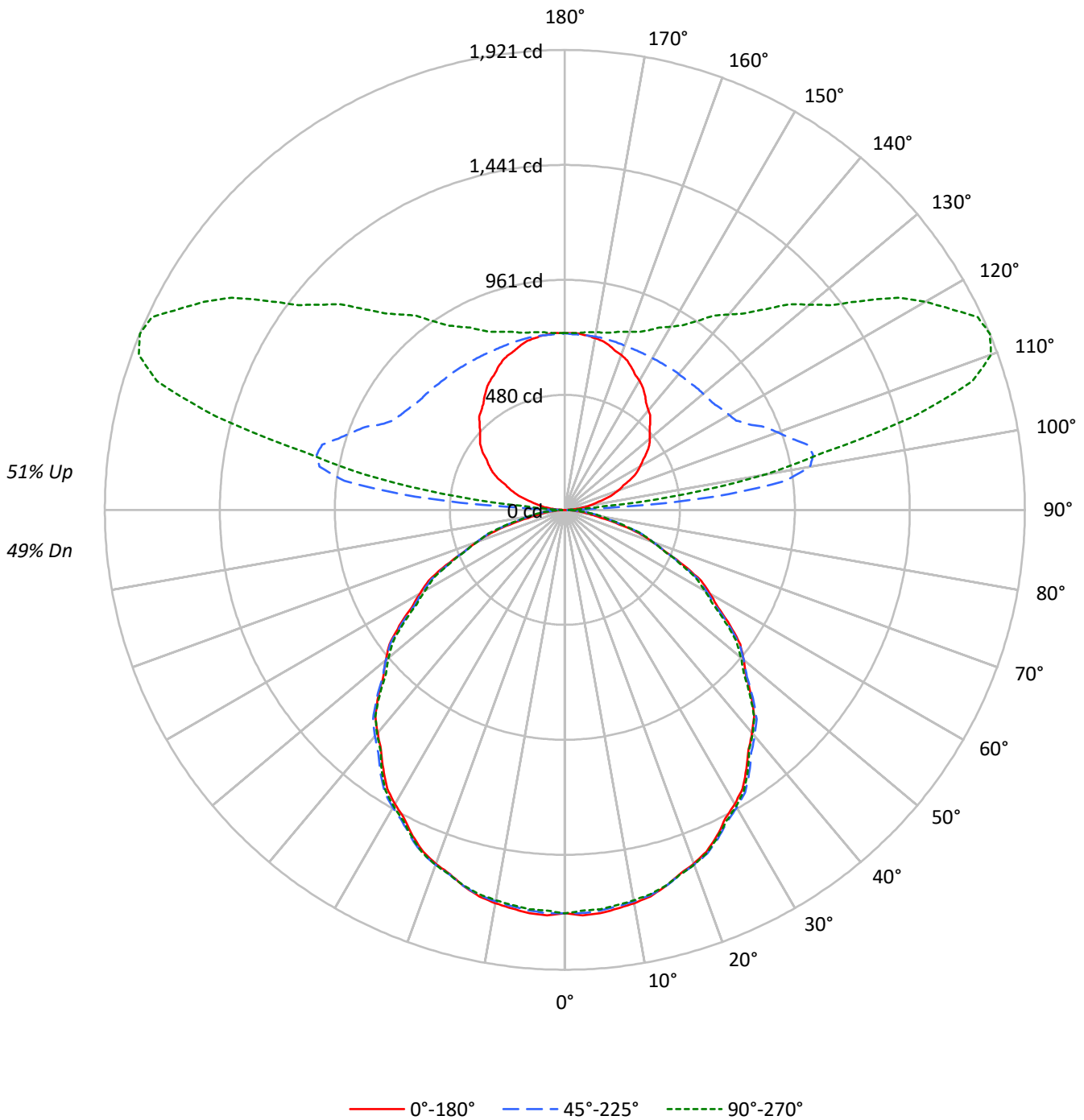
Lumens per Lamp: N/A
Luminaire Lumens: 9395.8 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.9
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 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 | 49 |
| 1 | 98 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 73 | 70 | 68 | 60 | 59 | 57 | 49 | 48 | 47 | 41 |
| 2 | 89 | 81 | 75 | 70 | 82 | 75 | 70 | 66 | 64 | 60 | 56 | 53 | 50 | 48 | 43 | 41 | 39 | 35 |
| 3 | 81 | 72 | 64 | 58 | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 47 | 43 | 40 | 38 | 36 | 33 | 29 |
| 4 | 74 | 63 | 55 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 34 | 34 | 31 | 29 | 25 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6 | 63 | 51 | 42 | 37 | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 34 | 29 | 26 | 28 | 24 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 20 | 17 |
| 8 | 54 | 41 | 34 | 28 | 49 | 38 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 20 | 23 | 20 | 17 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 26 | 21 | 18 | 21 | 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° | 10368 | 10368 | 10368 |
| 5° | 10446 | 10378 | 10339 |
| 10° | 10420 | 10372 | 10342 |
| 15° | 10365 | 10365 | 10356 |
| 20° | 10297 | 10328 | 10328 |
| 25° | 10200 | 10274 | 10242 |
| 30° | 10076 | 10198 | 10153 |
| 35° | 9926 | 10078 | 10008 |
| 40° | 9762 | 9900 | 9800 |
| 45° | 9585 | 9653 | 9503 |
| 50° | 9334 | 9334 | 9184 |
| 55° | 9038 | 8921 | 8787 |
| 60° | 8601 | 8428 | 8294 |
| 65° | 7949 | 7791 | 7722 |
| 70° | 6962 | 7017 | 6988 |
| 75° | 5601 | 6193 | 6231 |
| 80° | 3981 | 5253 | 5306 |
| 85° | 2421 | 4404 | 4404 |



TEST NUMBER: P562951

CATALOG NUMBER: SQ4-PC3-100U-100D-930-1D-UNV-STD-W-6

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 159.5 | 1.7 |
| 10°-20° | 457.8 | 4.9 |
| 20°-30° | 693.2 | 7.4 |
| 30°-40° | 831.1 | 8.8 |
| 40°-50° | 847.4 | 9.0 |
| 50°-60° | 739.8 | 7.9 |
| 60°-70° | 529.6 | 5.6 |
| 70°-80° | 272.8 | 2.9 |
| 80°-90° | 70.5 | 0.8 |
| 90°-100° | 345.5 | 3.7 |
| 100°-110° | 953.9 | 10.2 |
| 110°-120° | 983.8 | 10.5 |
| 120°-130° | 790.5 | 8.4 |
| 130°-140° | 621.3 | 6.6 |
| 140°-150° | 476.5 | 5.1 |
| 150°-160° | 342.5 | 3.6 |
| 160°-170° | 209.4 | 2.2 |
| 170°-180° | 70.6 | 0.8 |
| 0°-30° | 1310.5 | 13.9 |
| 0°-40° | 2141.7 | 22.8 |
| 0°-60° | 3728.9 | 39.7 |
| 0°-90° | 4601.7 | 49.0 |
| 90°-120° | 2283.2 | 24.3 |
| 90°-150° | 4171.5 | 44.4 |
| 90°-180° | 4794.0 | 51.0 |
| 0°-180° | 9395.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1686 | 1686 | 1686 | 1686 | 1686 | |
| 5° | 1692 | 1675 | 1681 | 1676 | 1675 | 161 |
| 15° | 1628 | 1614 | 1628 | 1628 | 1626 | 459 |
| 25° | 1503 | 1492 | 1514 | 1509 | 1509 | 692 |
| 35° | 1322 | 1319 | 1342 | 1333 | 1333 | 827 |
| 45° | 1102 | 1099 | 1110 | 1096 | 1092 | 848 |
| 55° | 843 | 832 | 832 | 819 | 819 | 751 |
| 65° | 546 | 534 | 535 | 531 | 531 | 540 |
| 75° | 236 | 246 | 261 | 262 | 262 | 255 |
| 85° | 34 | 53 | 62 | 64 | 62 | 47 |
| 90° | 2 | 5 | 9 | 11 | 12 | 5 |
| 95° | 51 | 187 | 627 | 258 | 168 | 54 |
| 105° | 170 | 262 | 1050 | 1602 | 1509 | 181 |
| 115° | 305 | 368 | 845 | 1673 | 1903 | 299 |
| 125° | 418 | 476 | 766 | 1297 | 1522 | 372 |
| 135° | 503 | 557 | 745 | 1050 | 1184 | 389 |
| 145° | 583 | 624 | 736 | 894 | 962 | 365 |
| 155° | 658 | 680 | 730 | 802 | 828 | 303 |
| 165° | 712 | 721 | 733 | 762 | 767 | 201 |
| 175° | 738 | 739 | 734 | 745 | 742 | 70 |
| 180° | 738 | 738 | 738 | 738 | 738 | |

TEST NUMBER: P562951

CATALOG NUMBER: SQ4-PC3-100U-100D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 |
| 2.5° | 1695.6 | 1680.9 | 1685.6 | 1681.7 | 1675.6 |
| 5° | 1691.8 | 1675.0 | 1680.9 | 1676.2 | 1674.6 |
| 7.5° | 1679.6 | 1662.8 | 1670.6 | 1667.4 | 1665.9 |
| 10° | 1668.4 | 1651.6 | 1660.6 | 1657.4 | 1655.9 |
| 12.5° | 1653.4 | 1637.8 | 1648.1 | 1645.0 | 1644.7 |
| 15° | 1627.8 | 1614.1 | 1627.8 | 1627.8 | 1626.3 |
| 17.5° | 1595.7 | 1583.2 | 1597.9 | 1598.8 | 1597.9 |
| 20° | 1573.2 | 1559.5 | 1577.9 | 1576.3 | 1577.9 |
| 22.5° | 1545.7 | 1534.4 | 1554.2 | 1550.1 | 1551.7 |
| 25° | 1503.0 | 1492.3 | 1513.9 | 1509.2 | 1509.2 |
| 27.5° | 1452.4 | 1444.8 | 1468.3 | 1463.3 | 1463.3 |
| 30° | 1418.7 | 1411.1 | 1435.8 | 1429.6 | 1429.6 |
| 32.5° | 1381.2 | 1376.0 | 1399.6 | 1392.1 | 1392.1 |
| 35° | 1321.9 | 1318.9 | 1342.2 | 1332.8 | 1332.8 |
| 37.5° | 1260.7 | 1258.0 | 1279.2 | 1267.8 | 1264.2 |
| 40° | 1215.8 | 1214.3 | 1233.0 | 1220.5 | 1220.5 |
| 42.5° | 1170.8 | 1169.3 | 1185.5 | 1170.5 | 1170.5 |
| 45° | 1101.9 | 1098.8 | 1109.7 | 1095.5 | 1092.5 |
| 47.5° | 1026.6 | 1023.6 | 1030.4 | 1015.0 | 1013.5 |
| 50° | 975.4 | 972.4 | 975.4 | 961.4 | 959.8 |
| 52.5° | 923.0 | 917.5 | 918.0 | 904.0 | 903.6 |
| 55° | 842.8 | 832.1 | 831.9 | 819.4 | 819.4 |
| 57.5° | 757.9 | 743.8 | 745.1 | 734.4 | 732.9 |
| 60° | 699.2 | 683.9 | 685.1 | 675.8 | 674.2 |
| 62.5° | 641.8 | 624.1 | 627.7 | 617.1 | 616.8 |
| 65° | 546.2 | 534.0 | 535.3 | 530.6 | 530.6 |
| 67.5° | 454.5 | 443.2 | 451.4 | 447.6 | 447.3 |
| 70° | 387.1 | 379.4 | 390.2 | 390.1 | 388.6 |
| 72.5° | 324.6 | 324.3 | 337.7 | 337.8 | 338.7 |
| 75° | 235.7 | 246.3 | 260.6 | 262.2 | 262.2 |
| 77.5° | 157.3 | 176.2 | 192.0 | 192.6 | 192.3 |
| 80° | 112.4 | 133.7 | 148.3 | 151.4 | 149.8 |
| 82.5° | 76.2 | 98.7 | 110.8 | 113.9 | 112.4 |
| 85° | 34.3 | 52.6 | 62.4 | 64.0 | 62.4 |
| 87.5° | 10.5 | 21.9 | 26.9 | 27.0 | 24.8 |
| 90° | 2.4 | 4.7 | 9.4 | 10.7 | 11.8 |
| 92.5° | 21.2 | 88.2 | 157.7 | 57.6 | 44.9 |
| 95° | 50.8 | 187.0 | 626.9 | 257.7 | 167.6 |
| 97.5° | 84.1 | 209.4 | 928.6 | 714.9 | 517.8 |
| 100° | 108.6 | 222.9 | 1040.0 | 1047.4 | 851.2 |
| 102.5° | 132.2 | 238.2 | 1061.8 | 1294.1 | 1108.0 |
| 105° | 170.0 | 262.3 | 1049.5 | 1602.2 | 1508.7 |
| 107.5° | 210.1 | 292.3 | 990.9 | 1750.8 | 1784.9 |
| 110° | 238.5 | 312.3 | 945.6 | 1782.7 | 1893.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 264.0 | 335.1 | 903.1 | 1757.5 | 1920.9 |
| 115° | 304.6 | 368.1 | 845.3 | 1673.3 | 1903.0 |
| 117.5° | 340.0 | 403.2 | 807.2 | 1554.8 | 1816.1 |
| 120° | 363.6 | 425.9 | 792.1 | 1474.6 | 1737.7 |
| 122.5° | 386.3 | 445.8 | 779.9 | 1399.6 | 1649.0 |
| 125° | 417.9 | 475.6 | 766.2 | 1296.6 | 1521.7 |
| 127.5° | 444.8 | 502.5 | 758.1 | 1209.5 | 1403.6 |
| 130° | 462.8 | 520.5 | 754.4 | 1156.2 | 1332.8 |
| 132.5° | 479.8 | 534.7 | 750.6 | 1111.4 | 1271.4 |
| 135° | 502.9 | 557.2 | 744.9 | 1050.2 | 1184.1 |
| 137.5° | 528.9 | 578.3 | 742.1 | 998.7 | 1113.0 |
| 140° | 543.0 | 591.5 | 740.2 | 964.4 | 1064.8 |
| 142.5° | 559.1 | 603.9 | 738.3 | 933.9 | 1022.3 |
| 145° | 583.2 | 623.6 | 735.5 | 894.0 | 962.1 |
| 147.5° | 606.3 | 641.6 | 732.9 | 860.4 | 913.3 |
| 150° | 623.3 | 652.2 | 731.9 | 840.3 | 883.0 |
| 152.5° | 636.5 | 663.5 | 731.0 | 823.2 | 858.5 |
| 155° | 657.6 | 679.5 | 729.6 | 802.2 | 827.5 |
| 157.5° | 676.9 | 693.8 | 729.8 | 786.9 | 804.2 |
| 160° | 688.2 | 703.2 | 730.7 | 778.3 | 790.9 |
| 162.5° | 697.7 | 710.8 | 731.7 | 770.6 | 780.6 |
| 165° | 711.9 | 721.1 | 733.1 | 761.6 | 767.3 |
| 167.5° | 722.7 | 728.3 | 734.3 | 756.0 | 757.9 |
| 170° | 728.4 | 733.0 | 734.3 | 753.2 | 753.2 |
| 172.5° | 733.1 | 735.9 | 734.3 | 749.4 | 748.5 |
| 175° | 737.8 | 739.0 | 734.3 | 744.9 | 742.5 |
| 177.5° | 739.7 | 738.8 | 734.0 | 740.6 | 738.8 |
| 180° | 737.8 | 737.8 | 737.8 | 737.8 | 737.8 |

(END OF REPORT)