

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: P563691

Luminaire Tested: **SQ4-PP3-125U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563691
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

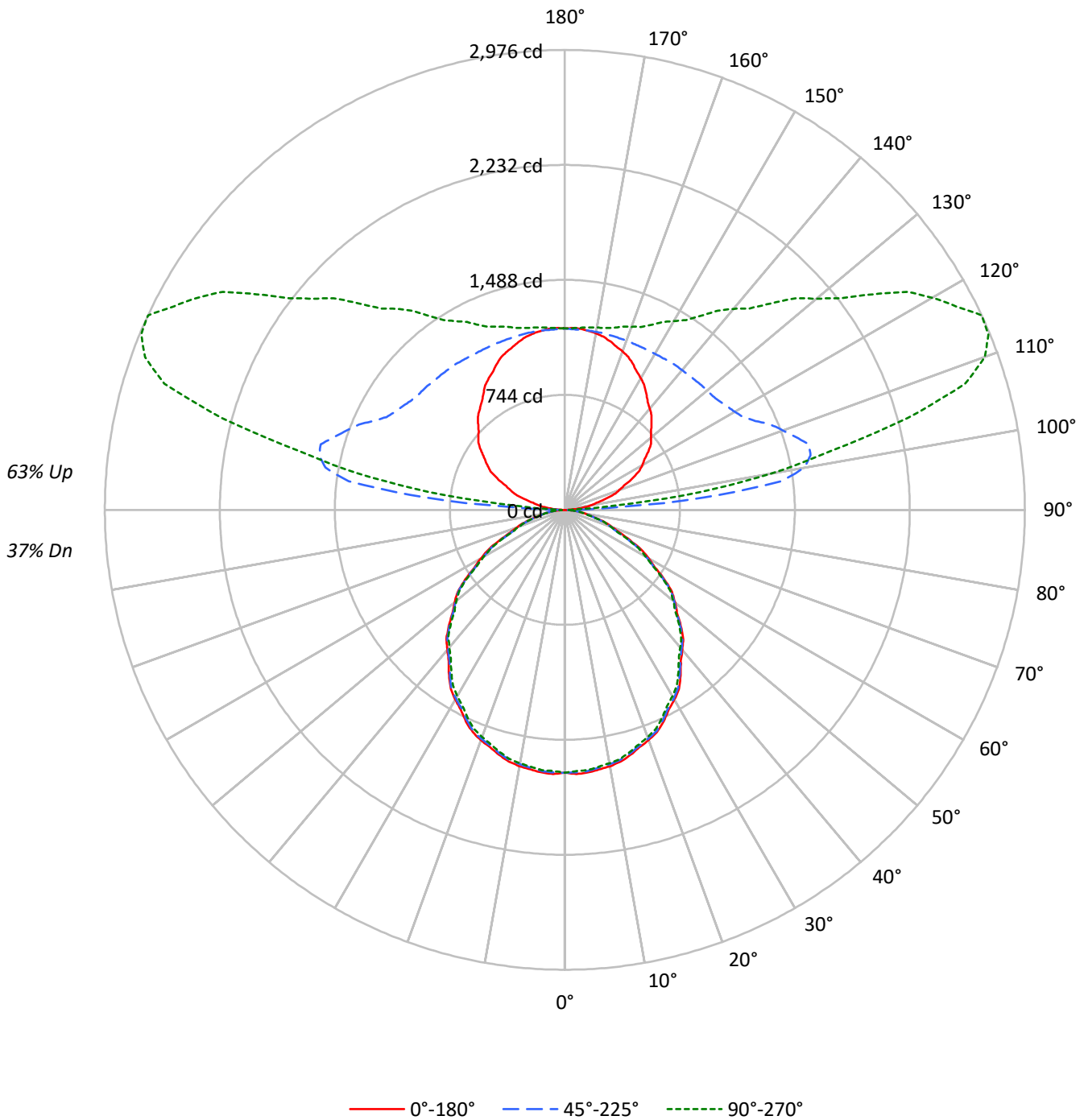
Lumens per Lamp: N/A
Luminaire Lumens: 11930.2 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 37 |
| 1 | 95 | 91 | 87 | 84 | 86 | 82 | 79 | 76 | 67 | 64 | 62 | 52 | 51 | 49 | 39 | 38 | 37 | 31 |
| 2 | 87 | 79 | 73 | 68 | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 46 | 44 | 41 | 34 | 33 | 32 | 26 |
| 3 | 79 | 70 | 63 | 57 | 71 | 64 | 57 | 53 | 52 | 47 | 44 | 41 | 38 | 35 | 31 | 29 | 27 | 22 |
| 4 | 72 | 62 | 54 | 48 | 65 | 56 | 50 | 45 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |
| 5 | 66 | 55 | 47 | 41 | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 22 | 20 | 17 |
| 6 | 61 | 49 | 41 | 36 | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 29 | 26 | 23 | 22 | 20 | 18 | 15 |
| 7 | 56 | 44 | 37 | 31 | 51 | 41 | 34 | 29 | 33 | 28 | 24 | 27 | 23 | 20 | 20 | 18 | 16 | 13 |
| 8 | 52 | 40 | 33 | 27 | 47 | 37 | 30 | 26 | 30 | 25 | 22 | 24 | 21 | 18 | 19 | 16 | 14 | 12 |
| 9 | 48 | 37 | 29 | 24 | 44 | 34 | 27 | 23 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 11 |
| 10 | 45 | 33 | 26 | 22 | 41 | 31 | 24 | 20 | 26 | 21 | 17 | 21 | 17 | 14 | 16 | 13 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10461 | 10461 | 10461 |
| 5° | 10538 | 10473 | 10436 |
| 10° | 10520 | 10445 | 10399 |
| 15° | 10450 | 10393 | 10337 |
| 20° | 10381 | 10322 | 10244 |
| 25° | 10258 | 10187 | 10086 |
| 30° | 10068 | 10015 | 9888 |
| 35° | 9805 | 9737 | 9614 |
| 40° | 9491 | 9431 | 9324 |
| 45° | 9232 | 9167 | 9076 |
| 50° | 8900 | 8844 | 8758 |
| 55° | 8439 | 8328 | 8264 |
| 60° | 7684 | 7463 | 7426 |
| 65° | 6769 | 6487 | 6465 |
| 70° | 5843 | 5602 | 5602 |
| 75° | 5031 | 4960 | 4888 |
| 80° | 4435 | 4488 | 4382 |
| 85° | 3472 | 3790 | 3790 |



TEST NUMBER: P563691

CATALOG NUMBER: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 160.8 | 1.3 |
| 10°-20° | 459.2 | 3.8 |
| 20°-30° | 687.8 | 5.8 |
| 30°-40° | 806.8 | 6.8 |
| 40°-50° | 809.3 | 6.8 |
| 50°-60° | 690.4 | 5.8 |
| 60°-70° | 450.3 | 3.8 |
| 70°-80° | 225.9 | 1.9 |
| 80°-90° | 65.3 | 0.5 |
| 90°-100° | 548.9 | 4.6 |
| 100°-110° | 1478.5 | 12.4 |
| 110°-120° | 1551.7 | 13.0 |
| 120°-130° | 1259.2 | 10.6 |
| 130°-140° | 987.5 | 8.3 |
| 140°-150° | 758.2 | 6.4 |
| 150°-160° | 545.1 | 4.6 |
| 160°-170° | 333.0 | 2.8 |
| 170°-180° | 112.3 | 0.9 |
| 0°-30° | 1307.9 | 11.0 |
| 0°-40° | 2114.6 | 17.7 |
| 0°-60° | 3614.4 | 30.3 |
| 0°-90° | 4355.8 | 36.5 |
| 90°-120° | 3579.1 | 30.0 |
| 90°-150° | 6584.0 | 55.2 |
| 90°-180° | 7574.0 | 63.5 |
| 0°-180° | 11930.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1701 | 1701 | 1701 | 1701 | 1701 | |
| 5° | 1707 | 1691 | 1696 | 1690 | 1690 | 162 |
| 15° | 1641 | 1625 | 1632 | 1626 | 1623 | 463 |
| 25° | 1512 | 1494 | 1501 | 1488 | 1486 | 695 |
| 35° | 1306 | 1293 | 1297 | 1282 | 1280 | 816 |
| 45° | 1061 | 1054 | 1054 | 1043 | 1043 | 817 |
| 55° | 787 | 784 | 777 | 772 | 771 | 699 |
| 65° | 465 | 456 | 446 | 443 | 444 | 464 |
| 75° | 212 | 212 | 209 | 207 | 206 | 230 |
| 85° | 49 | 54 | 54 | 54 | 54 | 58 |
| 90° | 3 | 9 | 18 | 19 | 19 | 8 |
| 95° | 84 | 298 | 900 | 460 | 318 | 87 |
| 105° | 274 | 426 | 1635 | 2446 | 2296 | 288 |
| 115° | 483 | 591 | 1362 | 2631 | 2976 | 475 |
| 125° | 659 | 757 | 1223 | 2066 | 2432 | 589 |
| 135° | 794 | 886 | 1188 | 1667 | 1888 | 613 |
| 145° | 918 | 989 | 1173 | 1425 | 1530 | 576 |
| 155° | 1042 | 1080 | 1163 | 1279 | 1320 | 480 |
| 165° | 1130 | 1143 | 1167 | 1214 | 1220 | 319 |
| 175° | 1175 | 1173 | 1169 | 1185 | 1182 | 112 |
| 180° | 1173 | 1173 | 1173 | 1173 | 1173 | |

TEST NUMBER: P563691

CATALOG NUMBER: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1700.8 | 1700.8 | 1700.8 | 1700.8 | 1700.8 |
| 2.5° | 1711.5 | 1697.5 | 1700.8 | 1698.2 | 1691.2 |
| 5° | 1706.7 | 1690.7 | 1696.3 | 1690.3 | 1690.3 |
| 7.5° | 1695.1 | 1677.6 | 1683.2 | 1677.2 | 1676.9 |
| 10° | 1684.4 | 1666.9 | 1672.4 | 1666.5 | 1665.0 |
| 12.5° | 1668.9 | 1651.4 | 1658.1 | 1651.0 | 1650.7 |
| 15° | 1641.1 | 1625.1 | 1632.2 | 1626.2 | 1623.3 |
| 17.5° | 1609.8 | 1592.4 | 1600.9 | 1592.5 | 1591.4 |
| 20° | 1586.0 | 1568.5 | 1577.0 | 1565.1 | 1565.1 |
| 22.5° | 1557.4 | 1539.9 | 1549.6 | 1534.1 | 1534.1 |
| 25° | 1511.5 | 1494.0 | 1501.0 | 1487.6 | 1486.1 |
| 27.5° | 1456.9 | 1439.7 | 1447.1 | 1431.9 | 1431.6 |
| 30° | 1417.6 | 1401.5 | 1410.1 | 1393.7 | 1392.2 |
| 32.5° | 1374.6 | 1359.8 | 1366.0 | 1349.6 | 1348.1 |
| 35° | 1305.8 | 1292.6 | 1296.8 | 1281.9 | 1280.4 |
| 37.5° | 1233.3 | 1219.9 | 1224.7 | 1211.8 | 1211.3 |
| 40° | 1182.0 | 1173.3 | 1174.6 | 1164.1 | 1161.2 |
| 42.5° | 1134.3 | 1124.4 | 1125.7 | 1115.2 | 1114.7 |
| 45° | 1061.3 | 1054.0 | 1053.8 | 1043.4 | 1043.4 |
| 47.5° | 983.8 | 978.3 | 976.6 | 968.0 | 967.7 |
| 50° | 930.1 | 925.8 | 924.2 | 916.7 | 915.2 |
| 52.5° | 874.1 | 872.0 | 866.9 | 860.7 | 860.4 |
| 55° | 787.0 | 784.1 | 776.6 | 772.1 | 770.6 |
| 57.5° | 692.5 | 686.7 | 678.2 | 671.7 | 672.9 |
| 60° | 624.6 | 618.7 | 606.7 | 603.7 | 603.7 |
| 62.5° | 559.0 | 552.0 | 539.9 | 535.8 | 538.1 |
| 65° | 465.1 | 456.3 | 445.7 | 442.7 | 444.2 |
| 67.5° | 379.8 | 371.9 | 360.4 | 360.4 | 359.2 |
| 70° | 324.9 | 320.6 | 311.5 | 311.5 | 311.5 |
| 72.5° | 276.1 | 274.0 | 267.4 | 267.4 | 266.2 |
| 75° | 211.7 | 211.7 | 208.7 | 207.2 | 205.7 |
| 77.5° | 158.6 | 159.2 | 157.7 | 156.2 | 153.5 |
| 80° | 125.2 | 128.1 | 126.7 | 125.2 | 123.7 |
| 82.5° | 94.2 | 97.1 | 96.9 | 94.2 | 93.9 |
| 85° | 49.2 | 53.6 | 53.7 | 53.7 | 53.7 |
| 87.5° | 13.7 | 19.5 | 22.7 | 23.0 | 24.2 |
| 90° | 3.0 | 8.8 | 17.9 | 19.4 | 19.4 |
| 92.5° | 36.5 | 128.8 | 254.7 | 122.6 | 85.2 |
| 95° | 83.7 | 298.5 | 899.8 | 460.1 | 318.4 |
| 97.5° | 133.6 | 341.7 | 1411.3 | 1179.0 | 889.0 |
| 100° | 171.9 | 359.0 | 1573.9 | 1646.7 | 1366.1 |
| 102.5° | 209.0 | 383.2 | 1627.7 | 1997.0 | 1766.7 |
| 105° | 273.5 | 425.5 | 1635.2 | 2446.3 | 2295.8 |
| 107.5° | 334.5 | 470.1 | 1565.5 | 2677.2 | 2716.1 |
| 110° | 375.2 | 503.8 | 1502.1 | 2748.9 | 2890.7 |



TEST NUMBER: P563691

CATALOG NUMBER: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 418.2 | 537.5 | 1441.2 | 2733.1 | 2966.0 |
| 115° | 482.8 | 590.9 | 1361.6 | 2631.0 | 2975.9 |
| 117.5° | 541.7 | 643.1 | 1300.1 | 2468.1 | 2852.1 |
| 120° | 579.9 | 677.8 | 1269.0 | 2351.1 | 2745.7 |
| 122.5° | 613.4 | 710.2 | 1246.3 | 2231.5 | 2624.9 |
| 125° | 659.1 | 757.1 | 1222.6 | 2066.5 | 2431.8 |
| 127.5° | 703.1 | 799.5 | 1207.7 | 1920.9 | 2247.1 |
| 130° | 729.4 | 825.9 | 1201.7 | 1837.5 | 2123.9 |
| 132.5° | 755.7 | 851.0 | 1195.7 | 1764.0 | 2027.1 |
| 135° | 793.7 | 885.7 | 1188.3 | 1667.1 | 1887.8 |
| 137.5° | 829.8 | 918.1 | 1184.4 | 1584.9 | 1766.1 |
| 140° | 855.0 | 939.7 | 1180.8 | 1534.3 | 1697.9 |
| 142.5° | 881.3 | 960.2 | 1178.4 | 1487.0 | 1625.0 |
| 145° | 917.7 | 989.3 | 1173.3 | 1425.3 | 1530.5 |
| 147.5° | 957.2 | 1019.4 | 1168.2 | 1373.4 | 1456.1 |
| 150° | 983.5 | 1037.6 | 1165.8 | 1340.8 | 1409.5 |
| 152.5° | 1007.4 | 1054.5 | 1164.6 | 1314.2 | 1370.0 |
| 155° | 1041.8 | 1079.8 | 1162.9 | 1278.9 | 1319.8 |
| 157.5° | 1072.0 | 1101.5 | 1163.2 | 1254.1 | 1281.5 |
| 160° | 1091.1 | 1116.0 | 1164.3 | 1239.5 | 1260.0 |
| 162.5° | 1107.8 | 1128.0 | 1165.5 | 1227.5 | 1242.1 |
| 165° | 1130.0 | 1143.1 | 1167.3 | 1213.8 | 1219.7 |
| 167.5° | 1147.9 | 1155.5 | 1168.8 | 1203.3 | 1205.6 |
| 170° | 1159.9 | 1162.8 | 1168.8 | 1197.2 | 1197.2 |
| 172.5° | 1167.0 | 1167.6 | 1170.0 | 1191.3 | 1191.3 |
| 175° | 1174.8 | 1173.3 | 1168.8 | 1185.2 | 1182.3 |
| 177.5° | 1178.1 | 1175.8 | 1169.7 | 1179.2 | 1176.9 |
| 180° | 1173.3 | 1173.3 | 1173.3 | 1173.3 | 1173.3 |

(END OF REPORT)