

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: P523923

Luminaire Tested: **SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523923
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10982.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

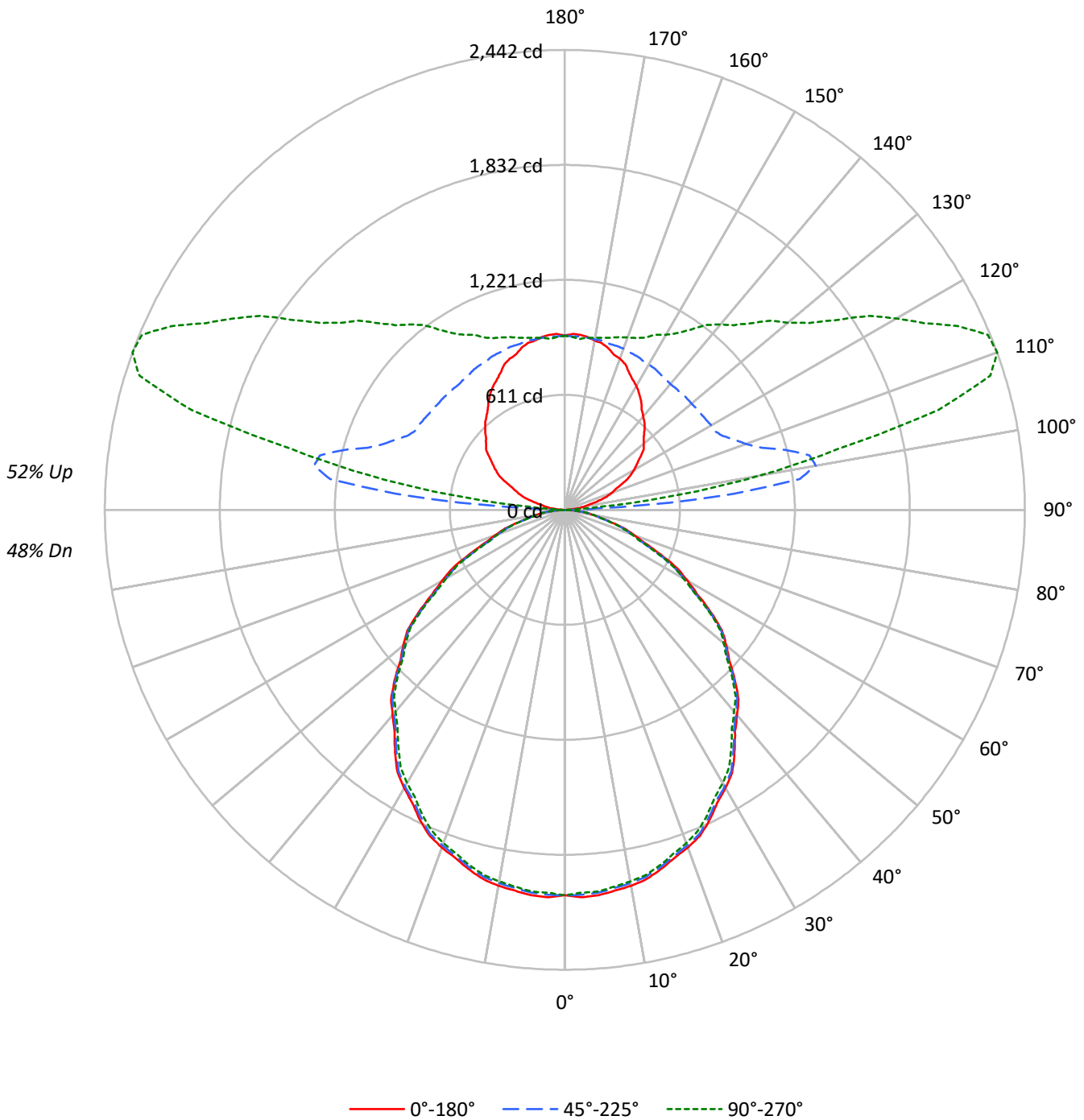
Input Watts (W): 97.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523923

CATALOG NUMBER: SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P523923

CATALOG NUMBER: SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (5000K)

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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 48 | | | | 48 |
| 1 | 97 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 | | | | 41 | |
| 2 | 89 | 82 | 76 | 71 | 82 | 75 | 70 | 66 | 63 | 60 | 56 | 53 | 50 | 47 | 42 | 41 | 39 | | | | 34 | |
| 3 | 81 | 72 | 65 | 59 | 74 | 66 | 60 | 55 | 56 | 51 | 48 | 47 | 43 | 40 | 38 | 35 | 33 | | | | 29 | |
| 4 | 74 | 64 | 56 | 50 | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 34 | 31 | 29 | | | | 25 | |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 45 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 30 | 28 | 25 | | | | 22 | |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 31 | 34 | 30 | 26 | 28 | 25 | 22 | | | | 19 | |
| 7 | 58 | 46 | 38 | 32 | 53 | 43 | 36 | 31 | 36 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 20 | | | | 17 | |
| 8 | 54 | 42 | 34 | 29 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | | | | 15 | |
| 9 | 50 | 38 | 31 | 26 | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 21 | 18 | 16 | | | | 14 | |
| 10 | 47 | 35 | 28 | 23 | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | | | | 12 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18880 | 18880 | 18880 |
| 5° | 19018 | 18902 | 18836 |
| 10° | 18986 | 18852 | 18768 |
| 15° | 18861 | 18758 | 18655 |
| 20° | 18735 | 18630 | 18489 |
| 25° | 18513 | 18385 | 18203 |
| 30° | 18171 | 18075 | 17846 |
| 35° | 17695 | 17574 | 17352 |
| 40° | 17129 | 17021 | 16827 |
| 45° | 16661 | 16545 | 16380 |
| 50° | 16063 | 15960 | 15806 |
| 55° | 15231 | 15030 | 14914 |
| 60° | 13867 | 13468 | 13402 |
| 65° | 12217 | 11706 | 11667 |
| 70° | 10547 | 10110 | 10110 |
| 75° | 9079 | 8951 | 8823 |
| 80° | 8002 | 8097 | 7911 |
| 85° | 6267 | 6838 | 6838 |



TEST NUMBER: P523923

CATALOG NUMBER: SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 193.5 | 1.8 |
| 10°-20° | 552.5 | 5.0 |
| 20°-30° | 827.6 | 7.5 |
| 30°-40° | 970.7 | 8.8 |
| 40°-50° | 973.7 | 8.9 |
| 50°-60° | 830.7 | 7.6 |
| 60°-70° | 541.7 | 4.9 |
| 70°-80° | 271.8 | 2.5 |
| 80°-90° | 75.2 | 0.7 |
| 90°-100° | 421.5 | 3.8 |
| 100°-110° | 1199.2 | 10.9 |
| 110°-120° | 1149.0 | 10.5 |
| 120°-130° | 909.4 | 8.3 |
| 130°-140° | 729.9 | 6.6 |
| 140°-150° | 571.4 | 5.2 |
| 150°-160° | 418.1 | 3.8 |
| 160°-170° | 259.0 | 2.4 |
| 170°-180° | 87.9 | 0.8 |
| 0°-30° | 1573.6 | 14.3 |
| 0°-40° | 2544.3 | 23.2 |
| 0°-60° | 4348.7 | 39.6 |
| 0°-90° | 5237.4 | 47.7 |
| 90°-120° | 2769.7 | 25.2 |
| 90°-150° | 4980.4 | 45.3 |
| 90°-180° | 5745.0 | 52.3 |
| 0°-180° | 10982.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2046 | 2046 | 2046 | 2046 | 2046 | |
| 5° | 2054 | 2034 | 2041 | 2034 | 2034 | 195 |
| 15° | 1975 | 1955 | 1964 | 1957 | 1953 | 557 |
| 25° | 1819 | 1798 | 1806 | 1790 | 1788 | 836 |
| 35° | 1571 | 1555 | 1560 | 1542 | 1541 | 981 |
| 45° | 1277 | 1268 | 1268 | 1255 | 1255 | 983 |
| 55° | 947 | 943 | 934 | 929 | 927 | 842 |
| 65° | 560 | 549 | 536 | 533 | 534 | 558 |
| 75° | 255 | 255 | 251 | 249 | 248 | 276 |
| 85° | 59 | 64 | 65 | 65 | 65 | 70 |
| 90° | 0 | 0 | 0 | 0 | 0 | 4 |
| 95° | 46 | 182 | 816 | 282 | 174 | 52 |
| 105° | 186 | 283 | 1222 | 2159 | 2052 | 197 |
| 115° | 346 | 419 | 927 | 1963 | 2305 | 341 |
| 125° | 489 | 542 | 884 | 1468 | 1755 | 438 |
| 135° | 598 | 648 | 874 | 1240 | 1402 | 461 |
| 145° | 705 | 741 | 881 | 1073 | 1169 | 440 |
| 155° | 805 | 824 | 902 | 970 | 1009 | 372 |
| 165° | 890 | 893 | 913 | 932 | 946 | 250 |
| 175° | 932 | 927 | 923 | 918 | 911 | 88 |
| 180° | 925 | 925 | 925 | 925 | 925 | |

TEST NUMBER: P523923

CATALOG NUMBER: SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2046.3 | 2046.3 | 2046.3 | 2046.3 | 2046.3 |
| 2.5° | 2059.2 | 2042.4 | 2046.3 | 2043.3 | 2034.8 |
| 5° | 2053.5 | 2034.2 | 2040.9 | 2033.8 | 2033.8 |
| 7.5° | 2039.5 | 2018.5 | 2025.2 | 2018.0 | 2017.6 |
| 10° | 2026.6 | 2005.6 | 2012.3 | 2005.0 | 2003.3 |
| 12.5° | 2007.9 | 1986.9 | 1995.0 | 1986.4 | 1986.1 |
| 15° | 1974.6 | 1955.3 | 1963.8 | 1956.6 | 1953.1 |
| 17.5° | 1936.9 | 1915.9 | 1926.2 | 1916.1 | 1914.7 |
| 20° | 1908.2 | 1887.2 | 1897.5 | 1883.1 | 1883.1 |
| 22.5° | 1873.8 | 1852.8 | 1864.5 | 1845.8 | 1845.8 |
| 25° | 1818.6 | 1797.5 | 1806.0 | 1789.8 | 1788.1 |
| 27.5° | 1752.9 | 1732.2 | 1741.1 | 1722.8 | 1722.4 |
| 30° | 1705.6 | 1686.3 | 1696.6 | 1676.8 | 1675.1 |
| 32.5° | 1653.9 | 1636.0 | 1643.5 | 1623.7 | 1622.0 |
| 35° | 1571.1 | 1555.3 | 1560.3 | 1542.3 | 1540.6 |
| 37.5° | 1483.9 | 1467.8 | 1473.5 | 1458.1 | 1457.4 |
| 40° | 1422.2 | 1411.7 | 1413.2 | 1400.6 | 1397.1 |
| 42.5° | 1364.8 | 1352.9 | 1354.4 | 1341.8 | 1341.1 |
| 45° | 1276.9 | 1268.2 | 1268.0 | 1255.4 | 1255.4 |
| 47.5° | 1183.7 | 1177.0 | 1175.1 | 1164.7 | 1164.3 |
| 50° | 1119.1 | 1113.9 | 1111.9 | 1102.9 | 1101.2 |
| 52.5° | 1051.7 | 1049.2 | 1043.1 | 1035.5 | 1035.2 |
| 55° | 946.9 | 943.4 | 934.4 | 929.0 | 927.2 |
| 57.5° | 833.2 | 826.2 | 816.0 | 808.2 | 809.6 |
| 60° | 751.5 | 744.4 | 729.9 | 726.3 | 726.3 |
| 62.5° | 672.5 | 664.1 | 649.6 | 644.6 | 647.4 |
| 65° | 559.6 | 549.0 | 536.2 | 532.7 | 534.4 |
| 67.5° | 457.0 | 447.5 | 433.7 | 433.6 | 432.2 |
| 70° | 391.0 | 385.7 | 374.8 | 374.8 | 374.8 |
| 72.5° | 332.1 | 329.7 | 321.7 | 321.7 | 320.3 |
| 75° | 254.7 | 254.7 | 251.1 | 249.2 | 247.5 |
| 77.5° | 190.8 | 191.5 | 189.7 | 187.9 | 184.7 |
| 80° | 150.6 | 154.2 | 152.4 | 150.6 | 148.9 |
| 82.5° | 113.3 | 116.9 | 116.6 | 113.3 | 113.0 |
| 85° | 59.2 | 64.4 | 64.6 | 64.6 | 64.6 |
| 87.5° | 15.8 | 21.4 | 23.0 | 23.0 | 24.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 14.1 | 74.6 | 173.0 | 50.4 | 38.0 |
| 95° | 45.7 | 181.5 | 815.9 | 282.4 | 174.1 |
| 97.5° | 84.1 | 212.7 | 1256.6 | 899.2 | 616.2 |
| 100° | 110.8 | 231.1 | 1352.2 | 1369.7 | 1055.1 |
| 102.5° | 140.3 | 251.0 | 1331.1 | 1753.2 | 1478.5 |
| 105° | 186.4 | 282.7 | 1222.1 | 2158.7 | 2052.1 |
| 107.5° | 233.2 | 319.5 | 1094.8 | 2273.0 | 2367.9 |
| 110° | 265.5 | 346.3 | 1021.6 | 2229.2 | 2442.4 |

TEST NUMBER: P523923

CATALOG NUMBER: SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 296.5 | 373.2 | 972.4 | 2125.8 | 2429.8 |
| 115° | 346.4 | 418.6 | 926.7 | 1963.1 | 2305.3 |
| 117.5° | 390.4 | 458.1 | 899.6 | 1785.3 | 2147.7 |
| 120° | 425.5 | 482.3 | 896.8 | 1683.7 | 2031.0 |
| 122.5° | 453.7 | 510.4 | 889.8 | 1594.5 | 1917.0 |
| 125° | 488.8 | 542.1 | 884.5 | 1467.8 | 1754.9 |
| 127.5° | 527.2 | 577.0 | 881.7 | 1392.1 | 1628.7 |
| 130° | 546.9 | 596.7 | 877.5 | 1339.3 | 1545.7 |
| 132.5° | 568.0 | 616.5 | 877.5 | 1298.2 | 1488.0 |
| 135° | 597.9 | 647.7 | 873.9 | 1239.8 | 1401.5 |
| 137.5° | 626.0 | 674.5 | 873.6 | 1190.5 | 1330.1 |
| 140° | 647.1 | 697.0 | 872.2 | 1149.5 | 1283.6 |
| 142.5° | 671.0 | 712.6 | 876.4 | 1116.9 | 1237.2 |
| 145° | 705.1 | 741.2 | 881.0 | 1073.1 | 1169.4 |
| 147.5° | 734.3 | 769.4 | 888.7 | 1028.8 | 1112.0 |
| 150° | 759.6 | 783.7 | 891.5 | 1014.2 | 1072.6 |
| 152.5° | 779.3 | 804.8 | 894.3 | 994.4 | 1048.7 |
| 155° | 805.4 | 824.3 | 902.1 | 969.8 | 1009.3 |
| 157.5° | 837.7 | 849.1 | 903.8 | 958.6 | 986.8 |
| 160° | 854.6 | 863.2 | 910.9 | 950.1 | 974.2 |
| 162.5° | 864.4 | 874.4 | 912.3 | 942.9 | 961.5 |
| 165° | 889.8 | 893.2 | 912.6 | 932.3 | 946.0 |
| 167.5° | 907.0 | 903.9 | 920.7 | 929.6 | 935.1 |
| 170° | 912.6 | 910.9 | 917.9 | 919.8 | 926.7 |
| 172.5° | 925.3 | 919.4 | 922.1 | 917.0 | 922.5 |
| 175° | 932.0 | 926.8 | 923.2 | 917.7 | 910.9 |
| 177.5° | 934.8 | 926.5 | 922.1 | 916.5 | 917.9 |
| 180° | 924.9 | 924.9 | 924.9 | 924.9 | 924.9 |

(END OF REPORT)