

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: P563385

Luminaire Tested: **SQ4-PP3-075U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563385
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12888.2 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

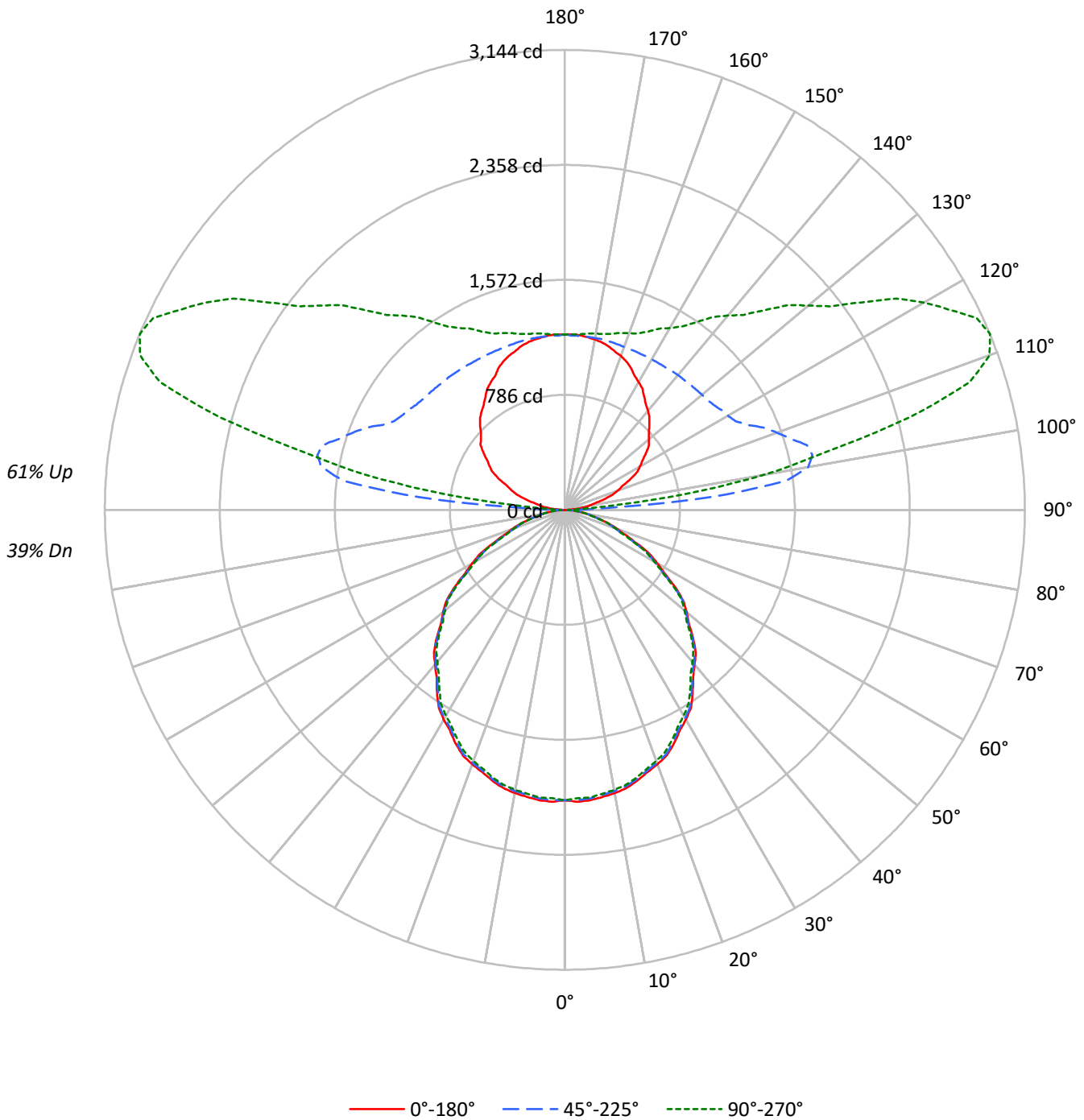
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 | 39 |
| 1 | 96 | 91 | 88 | 84 | 87 | 83 | 80 | 77 | 68 | 66 | 64 | 54 | 53 | 51 | 41 | 40 | 40 | 34 |
| 2 | 87 | 80 | 74 | 69 | 79 | 73 | 68 | 64 | 60 | 56 | 53 | 48 | 45 | 43 | 36 | 35 | 33 | 28 |
| 3 | 80 | 70 | 63 | 58 | 72 | 64 | 58 | 53 | 53 | 48 | 45 | 42 | 39 | 37 | 32 | 30 | 29 | 24 |
| 4 | 73 | 62 | 55 | 49 | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 34 | 31 | 29 | 27 | 25 | 21 |
| 5 | 67 | 55 | 47 | 42 | 60 | 51 | 44 | 39 | 42 | 37 | 33 | 34 | 30 | 27 | 26 | 24 | 22 | 18 |
| 6 | 61 | 50 | 42 | 36 | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 30 | 27 | 24 | 24 | 21 | 19 | 16 |
| 7 | 57 | 45 | 37 | 32 | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 | 14 |
| 8 | 53 | 41 | 33 | 28 | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 25 | 21 | 19 | 20 | 17 | 15 | 13 |
| 9 | 49 | 37 | 30 | 25 | 44 | 34 | 28 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 18 | 16 | 14 | 11 |
| 10 | 46 | 34 | 27 | 22 | 42 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 15 | 17 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6106 | 6106 | 6106 |
| 5° | 6151 | 6113 | 6091 |
| 10° | 6140 | 6097 | 6070 |
| 15° | 6099 | 6066 | 6033 |
| 20° | 6059 | 6025 | 5979 |
| 25° | 5987 | 5946 | 5887 |
| 30° | 5876 | 5845 | 5771 |
| 35° | 5722 | 5683 | 5611 |
| 40° | 5539 | 5504 | 5441 |
| 45° | 5388 | 5350 | 5297 |
| 50° | 5195 | 5161 | 5111 |
| 55° | 4926 | 4860 | 4823 |
| 60° | 4485 | 4356 | 4334 |
| 65° | 3951 | 3786 | 3773 |
| 70° | 3411 | 3270 | 3270 |
| 75° | 2936 | 2895 | 2853 |
| 80° | 2589 | 2619 | 2557 |
| 85° | 2025 | 2209 | 2209 |



TEST NUMBER: P563385

CATALOG NUMBER: SQ4-PP3-075U-050D-935-1D-UNV-STD-W-12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 187.7 | 1.5 |
| 10°-20° | 536.0 | 4.2 |
| 20°-30° | 802.9 | 6.2 |
| 30°-40° | 941.8 | 7.3 |
| 40°-50° | 944.7 | 7.3 |
| 50°-60° | 805.9 | 6.3 |
| 60°-70° | 525.6 | 4.1 |
| 70°-80° | 263.7 | 2.0 |
| 80°-90° | 76.0 | 0.6 |
| 90°-100° | 565.0 | 4.4 |
| 100°-110° | 1554.4 | 12.1 |
| 110°-120° | 1604.4 | 12.4 |
| 120°-130° | 1285.5 | 10.0 |
| 130°-140° | 1009.6 | 7.8 |
| 140°-150° | 773.7 | 6.0 |
| 150°-160° | 556.3 | 4.3 |
| 160°-170° | 340.2 | 2.6 |
| 170°-180° | 114.7 | 0.9 |
| 0°-30° | 1526.7 | 11.8 |
| 0°-40° | 2468.4 | 19.2 |
| 0°-60° | 4219.1 | 32.7 |
| 0°-90° | 5084.4 | 39.4 |
| 90°-120° | 3723.8 | 28.9 |
| 90°-150° | 6792.7 | 52.7 |
| 90°-180° | 7804.0 | 60.6 |
| 0°-180° | 12888.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1985 | 1985 | 1985 | 1985 | 1985 | |
| 5° | 1992 | 1974 | 1980 | 1973 | 1973 | 189 |
| 15° | 1916 | 1897 | 1905 | 1898 | 1895 | 540 |
| 25° | 1764 | 1744 | 1752 | 1736 | 1735 | 811 |
| 35° | 1524 | 1509 | 1514 | 1496 | 1495 | 952 |
| 45° | 1239 | 1230 | 1230 | 1218 | 1218 | 954 |
| 55° | 919 | 915 | 906 | 901 | 900 | 816 |
| 65° | 543 | 533 | 520 | 517 | 518 | 542 |
| 75° | 247 | 247 | 244 | 242 | 240 | 268 |
| 85° | 57 | 62 | 63 | 63 | 63 | 68 |
| 90° | 2 | 10 | 18 | 23 | 23 | 8 |
| 95° | 84 | 308 | 999 | 427 | 273 | 89 |
| 105° | 278 | 427 | 1713 | 2608 | 2434 | 293 |
| 115° | 492 | 599 | 1374 | 2736 | 3104 | 485 |
| 125° | 678 | 773 | 1246 | 2108 | 2470 | 605 |
| 135° | 818 | 908 | 1211 | 1705 | 1929 | 631 |
| 145° | 946 | 1010 | 1193 | 1453 | 1565 | 593 |
| 155° | 1070 | 1105 | 1185 | 1306 | 1343 | 492 |
| 165° | 1157 | 1172 | 1190 | 1239 | 1246 | 326 |
| 175° | 1198 | 1200 | 1193 | 1208 | 1206 | 114 |
| 180° | 1198 | 1198 | 1198 | 1198 | 1198 | |

TEST NUMBER: P563385

CATALOG NUMBER: SQ4-PP3-075U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1985.3 | 1985.3 | 1985.3 | 1985.3 | 1985.3 |
| 2.5° | 1997.8 | 1981.5 | 1985.3 | 1982.3 | 1974.2 |
| 5° | 1992.3 | 1973.6 | 1980.1 | 1973.1 | 1973.1 |
| 7.5° | 1978.7 | 1958.3 | 1964.8 | 1957.8 | 1957.5 |
| 10° | 1966.2 | 1945.8 | 1952.3 | 1945.3 | 1943.6 |
| 12.5° | 1948.1 | 1927.7 | 1935.6 | 1927.2 | 1926.9 |
| 15° | 1915.7 | 1897.0 | 1905.3 | 1898.2 | 1894.8 |
| 17.5° | 1879.2 | 1858.8 | 1868.7 | 1859.0 | 1857.6 |
| 20° | 1851.3 | 1830.9 | 1840.9 | 1827.0 | 1827.0 |
| 22.5° | 1817.9 | 1797.5 | 1808.9 | 1790.8 | 1790.8 |
| 25° | 1764.3 | 1743.9 | 1752.2 | 1736.5 | 1734.8 |
| 27.5° | 1700.7 | 1680.6 | 1689.2 | 1671.4 | 1671.1 |
| 30° | 1654.7 | 1636.0 | 1646.0 | 1626.8 | 1625.1 |
| 32.5° | 1604.6 | 1587.3 | 1594.5 | 1575.3 | 1573.6 |
| 35° | 1524.2 | 1508.9 | 1513.8 | 1496.3 | 1494.6 |
| 37.5° | 1439.7 | 1424.0 | 1429.6 | 1414.6 | 1413.9 |
| 40° | 1379.8 | 1369.6 | 1371.1 | 1358.8 | 1355.4 |
| 42.5° | 1324.1 | 1312.6 | 1314.0 | 1301.8 | 1301.2 |
| 45° | 1238.9 | 1230.4 | 1230.2 | 1218.0 | 1218.0 |
| 47.5° | 1148.4 | 1141.9 | 1140.0 | 1129.9 | 1129.6 |
| 50° | 1085.7 | 1080.6 | 1078.8 | 1070.0 | 1068.3 |
| 52.5° | 1020.3 | 1017.9 | 1012.0 | 1004.7 | 1004.3 |
| 55° | 918.7 | 915.3 | 906.5 | 901.3 | 899.6 |
| 57.5° | 808.4 | 801.6 | 791.7 | 784.1 | 785.4 |
| 60° | 729.1 | 722.2 | 708.2 | 704.7 | 704.7 |
| 62.5° | 652.5 | 644.3 | 630.2 | 625.4 | 628.1 |
| 65° | 542.9 | 532.7 | 520.3 | 516.8 | 518.5 |
| 67.5° | 443.3 | 434.2 | 420.7 | 420.7 | 419.3 |
| 70° | 379.3 | 374.2 | 363.7 | 363.7 | 363.7 |
| 72.5° | 322.2 | 319.9 | 312.2 | 312.1 | 310.8 |
| 75° | 247.1 | 247.1 | 243.6 | 241.8 | 240.1 |
| 77.5° | 185.1 | 185.8 | 184.1 | 182.3 | 179.2 |
| 80° | 146.2 | 149.6 | 147.9 | 146.1 | 144.4 |
| 82.5° | 110.0 | 113.4 | 113.1 | 110.0 | 109.6 |
| 85° | 57.4 | 62.5 | 62.6 | 62.6 | 62.6 |
| 87.5° | 15.8 | 22.8 | 25.8 | 26.9 | 28.3 |
| 90° | 2.5 | 10.0 | 17.8 | 22.9 | 22.9 |
| 92.5° | 35.2 | 150.3 | 260.5 | 100.0 | 82.1 |
| 95° | 84.1 | 308.4 | 999.1 | 427.2 | 272.7 |
| 97.5° | 137.1 | 342.0 | 1524.6 | 1174.7 | 828.8 |
| 100° | 175.9 | 362.8 | 1689.8 | 1705.6 | 1391.6 |
| 102.5° | 212.6 | 387.5 | 1732.6 | 2116.0 | 1827.9 |
| 105° | 277.8 | 427.3 | 1712.7 | 2608.5 | 2434.0 |
| 107.5° | 340.0 | 476.6 | 1615.4 | 2849.6 | 2901.5 |
| 110° | 384.9 | 509.5 | 1542.0 | 2909.6 | 3089.0 |

TEST NUMBER: P563385

CATALOG NUMBER: SQ4-PP3-075U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 425.6 | 546.3 | 1468.6 | 2871.0 | 3144.1 |
| 115° | 491.9 | 599.1 | 1373.8 | 2735.5 | 3104.3 |
| 117.5° | 555.1 | 653.8 | 1313.6 | 2545.5 | 2962.6 |
| 120° | 593.9 | 688.6 | 1287.1 | 2403.0 | 2834.2 |
| 122.5° | 628.5 | 723.2 | 1268.8 | 2278.2 | 2687.4 |
| 125° | 678.0 | 772.7 | 1246.3 | 2108.4 | 2469.7 |
| 127.5° | 724.9 | 815.1 | 1231.5 | 1966.7 | 2283.7 |
| 130° | 749.3 | 841.5 | 1223.4 | 1882.4 | 2171.5 |
| 132.5° | 777.9 | 870.1 | 1217.3 | 1808.4 | 2069.6 |
| 135° | 818.1 | 907.9 | 1210.6 | 1705.1 | 1929.4 |
| 137.5° | 855.9 | 939.1 | 1205.0 | 1621.6 | 1806.5 |
| 140° | 884.4 | 961.7 | 1203.0 | 1566.2 | 1733.1 |
| 142.5° | 908.9 | 980.1 | 1198.9 | 1516.7 | 1659.7 |
| 145° | 945.6 | 1010.4 | 1192.8 | 1452.8 | 1564.9 |
| 147.5° | 984.8 | 1040.6 | 1189.7 | 1396.2 | 1485.9 |
| 150° | 1009.3 | 1059.1 | 1187.7 | 1365.2 | 1434.9 |
| 152.5° | 1031.7 | 1077.6 | 1185.7 | 1338.4 | 1396.2 |
| 155° | 1070.5 | 1105.4 | 1185.2 | 1305.8 | 1343.2 |
| 157.5° | 1098.5 | 1126.9 | 1185.2 | 1279.0 | 1304.9 |
| 160° | 1118.9 | 1141.3 | 1185.2 | 1264.6 | 1284.6 |
| 162.5° | 1135.2 | 1153.6 | 1187.2 | 1252.3 | 1268.2 |
| 165° | 1157.1 | 1172.1 | 1190.3 | 1238.8 | 1246.3 |
| 167.5° | 1172.4 | 1183.9 | 1192.8 | 1227.5 | 1229.5 |
| 170° | 1182.6 | 1190.1 | 1192.8 | 1223.4 | 1223.4 |
| 172.5° | 1190.8 | 1194.3 | 1192.8 | 1217.2 | 1215.2 |
| 175° | 1197.9 | 1200.4 | 1192.8 | 1208.0 | 1205.5 |
| 177.5° | 1199.9 | 1199.9 | 1191.8 | 1203.9 | 1199.9 |
| 180° | 1197.9 | 1197.9 | 1197.9 | 1197.9 | 1197.9 |

(END OF REPORT)