

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: P564383

Luminaire Tested: **SQ4-PR1-125U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564383
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

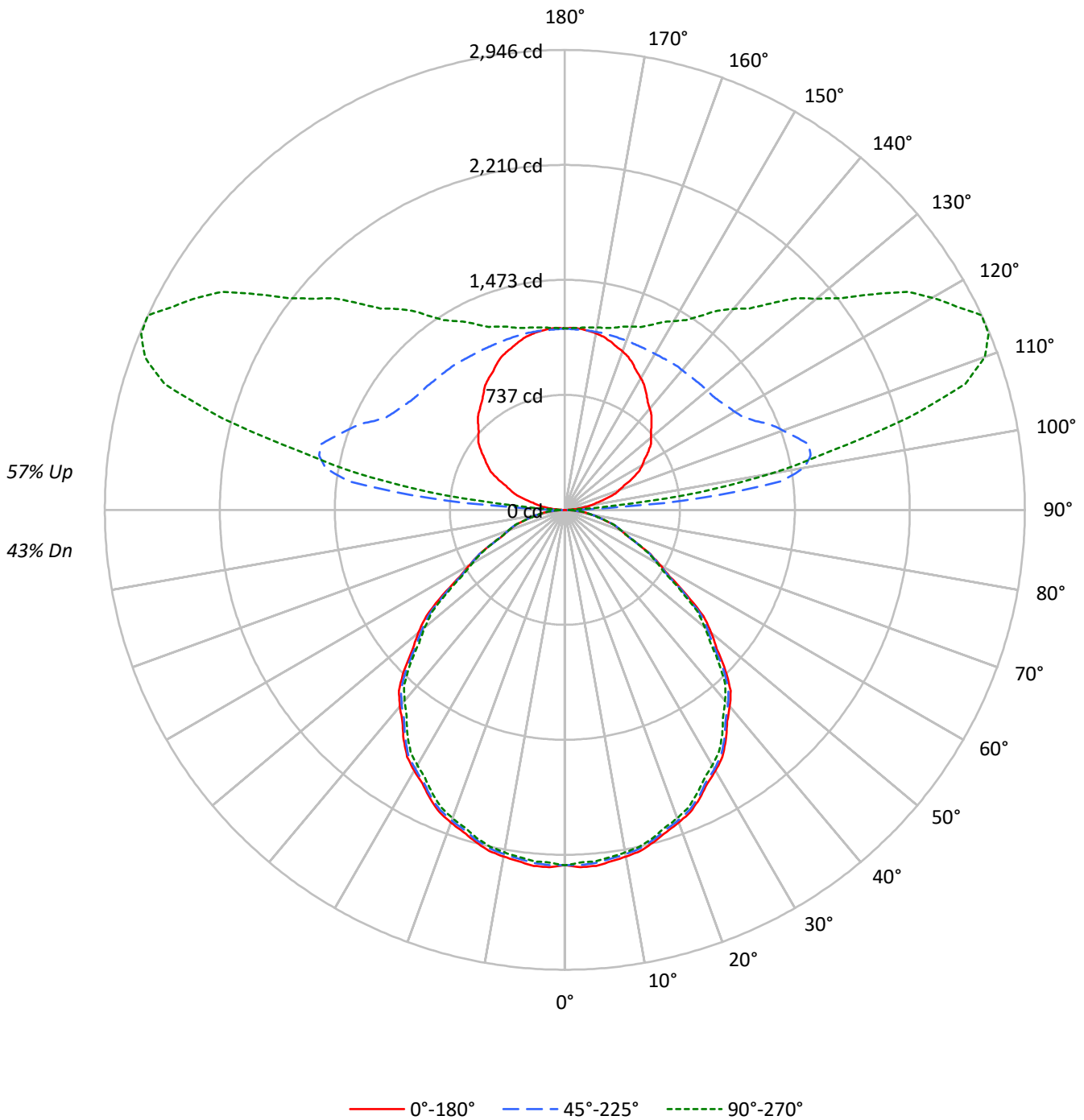
Lumens per Lamp: N/A
Luminaire Lumens: 13194.1 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 102.8
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 | 106 | 106 | 106 | 106 | 96 | 96 | 96 | 96 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |
| 1 | 96 | 92 | 89 | 85 | 88 | 85 | 81 | 78 | 70 | 68 | 66 | 57 | 55 | 54 | 44 | 43 | 43 | 37 |
| 2 | 88 | 81 | 75 | 70 | 80 | 74 | 69 | 65 | 62 | 58 | 55 | 50 | 48 | 45 | 39 | 38 | 36 | 31 |
| 3 | 80 | 71 | 64 | 59 | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 44 | 41 | 39 | 35 | 33 | 31 | 27 |
| 4 | 74 | 63 | 55 | 50 | 67 | 58 | 51 | 46 | 49 | 44 | 40 | 40 | 36 | 33 | 31 | 29 | 27 | 23 |
| 5 | 68 | 56 | 48 | 43 | 62 | 52 | 45 | 40 | 44 | 38 | 34 | 36 | 32 | 29 | 28 | 26 | 24 | 20 |
| 6 | 62 | 51 | 43 | 37 | 57 | 47 | 40 | 35 | 39 | 34 | 30 | 32 | 28 | 25 | 26 | 23 | 21 | 18 |
| 7 | 58 | 46 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 19 | 16 |
| 8 | 53 | 41 | 34 | 29 | 49 | 38 | 32 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 14 |
| 9 | 50 | 38 | 30 | 25 | 45 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |
| 10 | 46 | 35 | 27 | 23 | 42 | 32 | 26 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14006 | 14006 | 14006 |
| 5° | 14132 | 14023 | 13950 |
| 10° | 14087 | 13989 | 13915 |
| 15° | 14025 | 13938 | 13863 |
| 20° | 13954 | 13865 | 13762 |
| 25° | 13856 | 13763 | 13603 |
| 30° | 13707 | 13609 | 13414 |
| 35° | 13504 | 13387 | 13195 |
| 40° | 13197 | 13055 | 12819 |
| 45° | 12659 | 12437 | 12181 |
| 50° | 11710 | 11429 | 11204 |
| 55° | 10222 | 9990 | 9780 |
| 60° | 8614 | 8541 | 8372 |
| 65° | 7450 | 7479 | 7421 |
| 70° | 6843 | 6879 | 6879 |
| 75° | 6571 | 6571 | 6619 |
| 80° | 6185 | 6252 | 6185 |
| 85° | 4982 | 5540 | 5540 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 215.3 | 1.6 |
| 10°-20° | 616.1 | 4.7 |
| 20°-30° | 929.2 | 7.0 |
| 30°-40° | 1107.2 | 8.4 |
| 40°-50° | 1091.6 | 8.3 |
| 50°-60° | 834.2 | 6.3 |
| 60°-70° | 516.3 | 3.9 |
| 70°-80° | 293.2 | 2.2 |
| 80°-90° | 91.9 | 0.7 |
| 90°-100° | 543.4 | 4.1 |
| 100°-110° | 1463.8 | 11.1 |
| 110°-120° | 1536.2 | 11.6 |
| 120°-130° | 1246.6 | 9.4 |
| 130°-140° | 977.7 | 7.4 |
| 140°-150° | 750.6 | 5.7 |
| 150°-160° | 539.7 | 4.1 |
| 160°-170° | 329.7 | 2.5 |
| 170°-180° | 111.2 | 0.8 |
| 0°-30° | 1760.7 | 13.3 |
| 0°-40° | 2867.9 | 21.7 |
| 0°-60° | 4793.7 | 36.3 |
| 0°-90° | 5695.1 | 43.2 |
| 90°-120° | 3543.5 | 26.9 |
| 90°-150° | 6518.4 | 49.4 |
| 90°-180° | 7499.0 | 56.8 |
| 0°-180° | 13194.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2277 | 2277 | 2277 | 2277 | 2277 | |
| 5° | 2289 | 2264 | 2271 | 2263 | 2259 | 217 |
| 15° | 2202 | 2180 | 2189 | 2181 | 2177 | 622 |
| 25° | 2042 | 2017 | 2028 | 2006 | 2004 | 940 |
| 35° | 1798 | 1777 | 1783 | 1759 | 1757 | 1122 |
| 45° | 1455 | 1436 | 1430 | 1404 | 1400 | 1115 |
| 55° | 953 | 938 | 932 | 916 | 912 | 854 |
| 65° | 512 | 508 | 514 | 510 | 510 | 519 |
| 75° | 276 | 276 | 276 | 278 | 278 | 292 |
| 85° | 71 | 74 | 78 | 78 | 78 | 82 |
| 90° | 3 | 9 | 18 | 19 | 19 | 9 |
| 95° | 83 | 296 | 891 | 456 | 315 | 87 |
| 105° | 271 | 421 | 1619 | 2422 | 2273 | 285 |
| 115° | 478 | 585 | 1348 | 2605 | 2946 | 470 |
| 125° | 653 | 750 | 1210 | 2046 | 2408 | 583 |
| 135° | 786 | 877 | 1176 | 1650 | 1869 | 607 |
| 145° | 909 | 980 | 1162 | 1411 | 1515 | 570 |
| 155° | 1031 | 1069 | 1151 | 1266 | 1307 | 475 |
| 165° | 1119 | 1132 | 1156 | 1202 | 1208 | 315 |
| 175° | 1163 | 1162 | 1157 | 1173 | 1170 | 110 |
| 180° | 1162 | 1162 | 1162 | 1162 | 1162 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2277.1 | 2277.1 | 2277.1 | 2277.1 | 2277.1 |
| 2.5° | 2291.2 | 2271.2 | 2277.1 | 2272.1 | 2261.4 |
| 5° | 2288.8 | 2263.9 | 2271.2 | 2263.2 | 2259.4 |
| 7.5° | 2271.2 | 2246.6 | 2253.9 | 2246.0 | 2243.7 |
| 10° | 2255.5 | 2232.5 | 2239.8 | 2231.9 | 2228.0 |
| 12.5° | 2238.2 | 2213.7 | 2222.5 | 2213.0 | 2209.2 |
| 15° | 2202.5 | 2179.5 | 2188.8 | 2180.9 | 2177.0 |
| 17.5° | 2163.3 | 2138.8 | 2148.0 | 2138.9 | 2133.9 |
| 20° | 2131.9 | 2108.9 | 2118.2 | 2104.4 | 2102.5 |
| 22.5° | 2097.4 | 2074.4 | 2083.7 | 2065.2 | 2064.8 |
| 25° | 2041.7 | 2016.8 | 2028.0 | 2006.4 | 2004.4 |
| 27.5° | 1975.4 | 1952.4 | 1961.7 | 1939.7 | 1937.4 |
| 30° | 1929.9 | 1906.9 | 1916.2 | 1892.6 | 1888.7 |
| 32.5° | 1878.1 | 1856.6 | 1864.4 | 1840.8 | 1838.5 |
| 35° | 1798.5 | 1777.4 | 1782.8 | 1759.2 | 1757.3 |
| 37.5° | 1707.9 | 1688.7 | 1691.8 | 1665.9 | 1664.0 |
| 40° | 1643.6 | 1624.4 | 1625.9 | 1598.4 | 1596.5 |
| 42.5° | 1573.0 | 1553.8 | 1552.2 | 1524.7 | 1522.7 |
| 45° | 1455.3 | 1436.1 | 1429.8 | 1404.2 | 1400.4 |
| 47.5° | 1321.1 | 1301.9 | 1290.1 | 1269.3 | 1266.6 |
| 50° | 1223.8 | 1204.7 | 1194.4 | 1176.6 | 1170.9 |
| 52.5° | 1118.7 | 1099.5 | 1090.9 | 1074.7 | 1068.9 |
| 55° | 953.2 | 937.8 | 931.6 | 915.8 | 912.0 |
| 57.5° | 795.9 | 785.5 | 783.7 | 768.4 | 766.9 |
| 60° | 700.2 | 694.4 | 694.3 | 680.6 | 680.6 |
| 62.5° | 618.6 | 614.4 | 617.4 | 608.4 | 606.8 |
| 65° | 511.9 | 508.1 | 513.9 | 509.9 | 509.9 |
| 67.5° | 427.6 | 427.6 | 431.1 | 429.5 | 429.5 |
| 70° | 380.5 | 380.5 | 382.5 | 382.5 | 382.5 |
| 72.5° | 338.1 | 336.6 | 341.7 | 341.6 | 340.1 |
| 75° | 276.5 | 276.5 | 276.5 | 278.5 | 278.5 |
| 77.5° | 215.3 | 215.7 | 217.3 | 216.9 | 215.3 |
| 80° | 174.6 | 176.5 | 176.5 | 174.6 | 174.6 |
| 82.5° | 133.8 | 135.7 | 135.7 | 135.3 | 133.8 |
| 85° | 70.6 | 74.4 | 78.5 | 78.5 | 78.5 |
| 87.5° | 21.0 | 28.3 | 34.9 | 35.2 | 33.7 |
| 90° | 3.0 | 8.7 | 17.8 | 19.2 | 19.2 |
| 92.5° | 36.1 | 127.6 | 252.2 | 121.4 | 84.3 |
| 95° | 82.9 | 295.6 | 890.8 | 455.5 | 315.2 |
| 97.5° | 132.3 | 338.3 | 1397.2 | 1167.2 | 880.2 |
| 100° | 170.2 | 355.4 | 1558.2 | 1630.3 | 1352.5 |
| 102.5° | 206.9 | 379.3 | 1611.5 | 1977.1 | 1749.1 |
| 105° | 270.8 | 421.3 | 1618.9 | 2422.0 | 2272.9 |
| 107.5° | 331.2 | 465.4 | 1549.9 | 2650.6 | 2689.1 |
| 110° | 371.4 | 498.8 | 1487.2 | 2721.5 | 2861.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 414.0 | 532.1 | 1426.8 | 2705.8 | 2936.5 |
| 115° | 478.0 | 585.0 | 1348.1 | 2604.8 | 2946.2 |
| 117.5° | 536.3 | 636.7 | 1287.1 | 2443.5 | 2823.7 |
| 120° | 574.2 | 671.1 | 1256.3 | 2327.7 | 2718.4 |
| 122.5° | 607.3 | 703.1 | 1233.8 | 2209.3 | 2598.8 |
| 125° | 652.6 | 749.5 | 1210.5 | 2045.9 | 2407.6 |
| 127.5° | 696.1 | 791.6 | 1195.7 | 1901.8 | 2224.7 |
| 130° | 722.1 | 817.6 | 1189.7 | 1819.2 | 2102.8 |
| 132.5° | 748.2 | 842.5 | 1183.8 | 1746.4 | 2006.9 |
| 135° | 785.8 | 876.9 | 1176.4 | 1650.5 | 1869.0 |
| 137.5° | 821.6 | 909.0 | 1172.6 | 1569.1 | 1748.5 |
| 140° | 846.4 | 930.4 | 1169.0 | 1519.0 | 1681.0 |
| 142.5° | 872.5 | 950.6 | 1166.7 | 1472.2 | 1608.8 |
| 145° | 908.6 | 979.5 | 1161.6 | 1411.1 | 1515.3 |
| 147.5° | 947.7 | 1009.3 | 1156.6 | 1359.7 | 1441.6 |
| 150° | 973.7 | 1027.2 | 1154.2 | 1327.4 | 1395.4 |
| 152.5° | 997.4 | 1044.0 | 1153.0 | 1301.1 | 1356.4 |
| 155° | 1031.4 | 1069.0 | 1151.3 | 1266.1 | 1306.6 |
| 157.5° | 1061.3 | 1090.5 | 1151.6 | 1241.6 | 1268.8 |
| 160° | 1080.2 | 1104.8 | 1152.7 | 1227.2 | 1247.5 |
| 162.5° | 1096.8 | 1116.8 | 1153.9 | 1215.2 | 1229.7 |
| 165° | 1118.7 | 1131.7 | 1155.7 | 1201.7 | 1207.5 |
| 167.5° | 1136.5 | 1144.0 | 1157.2 | 1191.3 | 1193.6 |
| 170° | 1148.3 | 1151.2 | 1157.2 | 1185.3 | 1185.3 |
| 172.5° | 1155.4 | 1156.0 | 1158.4 | 1179.4 | 1179.4 |
| 175° | 1163.1 | 1161.7 | 1157.2 | 1173.4 | 1170.5 |
| 177.5° | 1166.4 | 1164.0 | 1158.1 | 1167.5 | 1165.2 |
| 180° | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 |

(END OF REPORT)