

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: P523884

Luminaire Tested: **SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523884
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-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 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: 7846.7 lumens
Efficiency: N/A
Efficacy: 126.4 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: Semi-Indirect

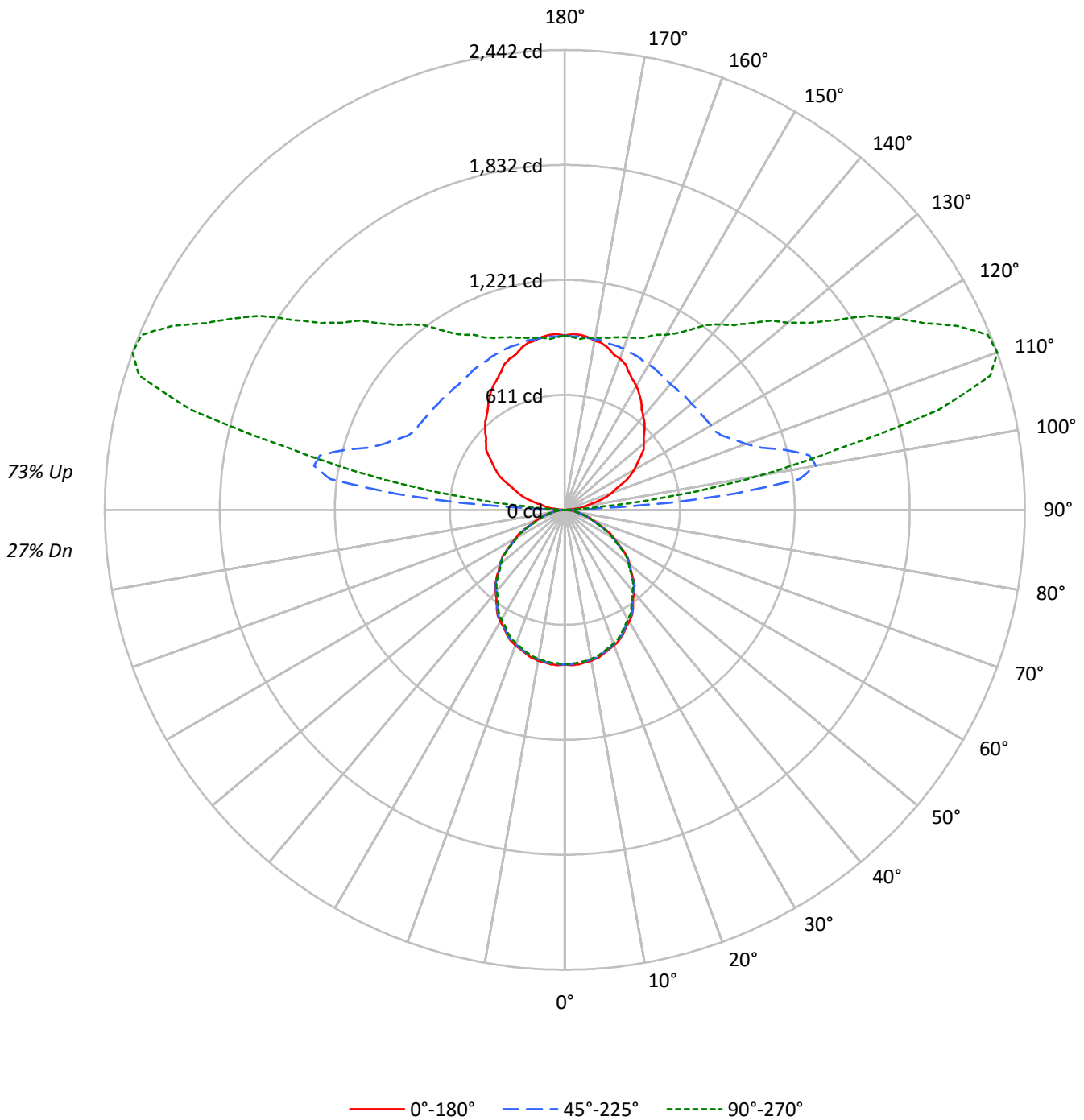
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P523884

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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 | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 35 | 35 | 35 | 27 |
| 1 | 93 | 89 | 85 | 82 | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 46 | 44 | 43 | 31 | 30 | 30 | 23 |
| 2 | 84 | 77 | 72 | 67 | 75 | 69 | 64 | 60 | 54 | 51 | 48 | 40 | 38 | 36 | 27 | 26 | 25 | 19 |
| 3 | 77 | 68 | 61 | 56 | 69 | 61 | 55 | 50 | 48 | 44 | 40 | 36 | 33 | 31 | 24 | 23 | 21 | 16 |
| 4 | 70 | 60 | 53 | 47 | 63 | 54 | 48 | 43 | 42 | 38 | 34 | 32 | 29 | 26 | 22 | 20 | 18 | 14 |
| 5 | 65 | 53 | 46 | 40 | 57 | 48 | 41 | 36 | 38 | 33 | 29 | 28 | 25 | 23 | 19 | 18 | 16 | 12 |
| 6 | 59 | 48 | 40 | 34 | 53 | 43 | 36 | 31 | 34 | 29 | 26 | 26 | 22 | 20 | 18 | 16 | 14 | 11 |
| 7 | 55 | 43 | 35 | 30 | 49 | 39 | 32 | 27 | 31 | 26 | 22 | 23 | 20 | 17 | 16 | 14 | 12 | 10 |
| 8 | 51 | 39 | 31 | 26 | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 15 | 15 | 13 | 11 | 9 |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 26 | 21 | 25 | 21 | 18 | 19 | 16 | 14 | 14 | 12 | 10 | 8 |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 12 | 13 | 11 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7575 | 7575 | 7575 |
| 5° | 7630 | 7583 | 7556 |
| 10° | 7618 | 7563 | 7529 |
| 15° | 7567 | 7526 | 7485 |
| 20° | 7517 | 7475 | 7418 |
| 25° | 7427 | 7376 | 7303 |
| 30° | 7290 | 7252 | 7159 |
| 35° | 7099 | 7051 | 6962 |
| 40° | 6872 | 6829 | 6751 |
| 45° | 6684 | 6637 | 6572 |
| 50° | 6445 | 6403 | 6341 |
| 55° | 6111 | 6030 | 5984 |
| 60° | 5563 | 5403 | 5377 |
| 65° | 4901 | 4696 | 4681 |
| 70° | 4232 | 4057 | 4057 |
| 75° | 3643 | 3590 | 3540 |
| 80° | 3209 | 3252 | 3172 |
| 85° | 2509 | 2742 | 2742 |



TEST NUMBER: P523884

CATALOG NUMBER: SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.6 | 1.0 |
| 10°-20° | 221.7 | 2.8 |
| 20°-30° | 332.0 | 4.2 |
| 30°-40° | 389.5 | 5.0 |
| 40°-50° | 390.7 | 5.0 |
| 50°-60° | 333.3 | 4.2 |
| 60°-70° | 217.3 | 2.8 |
| 70°-80° | 109.0 | 1.4 |
| 80°-90° | 30.2 | 0.4 |
| 90°-100° | 421.5 | 5.4 |
| 100°-110° | 1199.2 | 15.3 |
| 110°-120° | 1149.0 | 14.6 |
| 120°-130° | 909.4 | 11.6 |
| 130°-140° | 729.9 | 9.3 |
| 140°-150° | 571.4 | 7.3 |
| 150°-160° | 418.1 | 5.3 |
| 160°-170° | 259.0 | 3.3 |
| 170°-180° | 87.9 | 1.1 |
| 0°-30° | 631.3 | 8.0 |
| 0°-40° | 1020.8 | 13.0 |
| 0°-60° | 1744.7 | 22.2 |
| 0°-90° | 2101.3 | 26.8 |
| 90°-120° | 2769.7 | 35.3 |
| 90°-150° | 4980.4 | 63.5 |
| 90°-180° | 5745.0 | 73.2 |
| 0°-180° | 7846.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|------|-------|------|------|
| 0° | 821 | 821 | 821 | 821 | 821 | |
| 5° | 824 | 816 | 819 | 816 | 816 | 78 |
| 15° | 792 | 784 | 788 | 785 | 784 | 223 |
| 25° | 730 | 721 | 725 | 718 | 717 | 336 |
| 35° | 630 | 624 | 626 | 619 | 618 | 394 |
| 45° | 512 | 509 | 509 | 504 | 504 | 394 |
| 55° | 380 | 378 | 375 | 373 | 372 | 338 |
| 65° | 224 | 220 | 215 | 214 | 214 | 224 |
| 75° | 102 | 102 | 101 | 100 | 99 | 111 |
| 85° | 24 | 26 | 26 | 26 | 26 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 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: P523884

CATALOG NUMBER: SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 0° | 821.0 | 821.0 | 821.0 | 821.0 | 821.0 |
| 2.5° | 826.2 | 819.4 | 821.0 | 819.7 | 816.4 |
| 5° | 823.8 | 816.1 | 818.8 | 815.9 | 815.9 |
| 7.5° | 818.2 | 809.8 | 812.5 | 809.6 | 809.5 |
| 10° | 813.1 | 804.6 | 807.3 | 804.4 | 803.7 |
| 12.5° | 805.6 | 797.1 | 800.4 | 796.9 | 796.8 |
| 15° | 792.2 | 784.5 | 787.9 | 785.0 | 783.6 |
| 17.5° | 777.1 | 768.6 | 772.8 | 768.7 | 768.2 |
| 20° | 765.6 | 757.1 | 761.3 | 755.5 | 755.5 |
| 22.5° | 751.8 | 743.3 | 748.0 | 740.5 | 740.5 |
| 25° | 729.6 | 721.1 | 724.6 | 718.1 | 717.4 |
| 27.5° | 703.3 | 695.0 | 698.5 | 691.2 | 691.0 |
| 30° | 684.3 | 676.5 | 680.7 | 672.7 | 672.0 |
| 32.5° | 663.5 | 656.4 | 659.4 | 651.4 | 650.7 |
| 35° | 630.3 | 624.0 | 626.0 | 618.8 | 618.1 |
| 37.5° | 595.3 | 588.9 | 591.2 | 585.0 | 584.7 |
| 40° | 570.6 | 566.4 | 567.0 | 561.9 | 560.5 |
| 42.5° | 547.6 | 542.8 | 543.4 | 538.3 | 538.1 |
| 45° | 512.3 | 508.8 | 508.7 | 503.7 | 503.7 |
| 47.5° | 474.9 | 472.2 | 471.4 | 467.3 | 467.1 |
| 50° | 449.0 | 446.9 | 446.1 | 442.5 | 441.8 |
| 52.5° | 421.9 | 420.9 | 418.5 | 415.4 | 415.3 |
| 55° | 379.9 | 378.5 | 374.9 | 372.7 | 372.0 |
| 57.5° | 334.3 | 331.5 | 327.4 | 324.2 | 324.8 |
| 60° | 301.5 | 298.7 | 292.8 | 291.4 | 291.4 |
| 62.5° | 269.8 | 266.4 | 260.6 | 258.6 | 259.7 |
| 65° | 224.5 | 220.3 | 215.1 | 213.7 | 214.4 |
| 67.5° | 183.3 | 179.5 | 174.0 | 174.0 | 173.4 |
| 70° | 156.9 | 154.7 | 150.4 | 150.4 | 150.4 |
| 72.5° | 133.3 | 132.3 | 129.1 | 129.1 | 128.5 |
| 75° | 102.2 | 102.2 | 100.7 | 100.0 | 99.3 |
| 77.5° | 76.6 | 76.8 | 76.1 | 75.4 | 74.1 |
| 80° | 60.4 | 61.8 | 61.2 | 60.4 | 59.7 |
| 82.5° | 45.5 | 46.9 | 46.8 | 45.5 | 45.3 |
| 85° | 23.7 | 25.9 | 25.9 | 25.9 | 25.9 |
| 87.5° | 6.3 | 8.6 | 9.2 | 9.2 | 9.8 |
| 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: P523884

CATALOG NUMBER: SQ4-PP3-125U-050D-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)