

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

Brand: CORELITE

Report Number: P521901

Luminaire Tested: SQ4-WB-0U-125D-92765-1D-UNV-STD-W-4_3500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521901
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-125D-92765-1D-UNV-STD-W-4_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4344.7 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

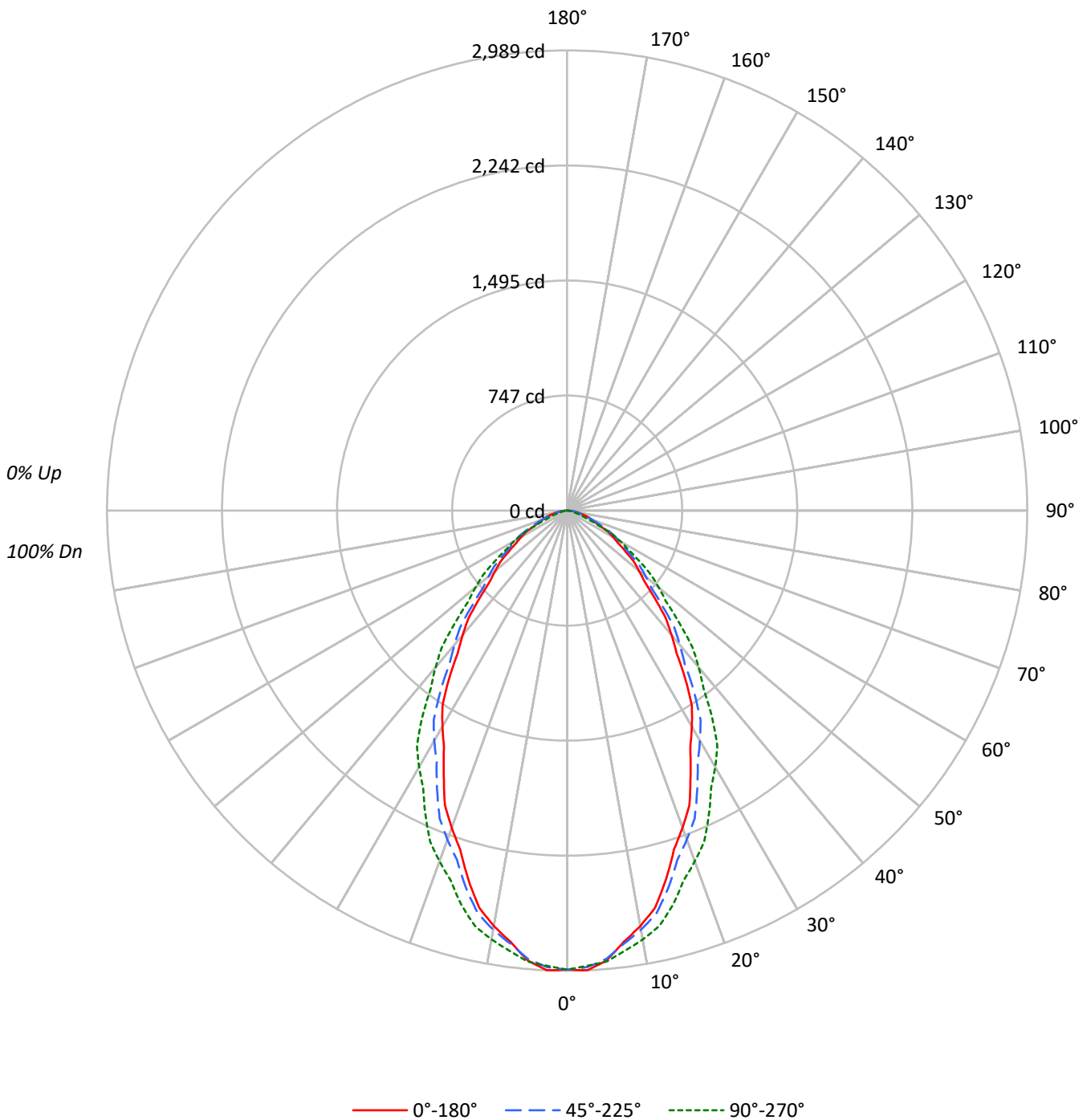
Input Watts (W): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P521901

CATALOG NUMBER: SQ4-WB-0U-125D-92765-1D-UNV-STD-W-4_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P521901

CATALOG NUMBER: SQ4-WB-OU-125D-92765-1D-UNV-STD-W-4_3500K

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 | | | | 89 |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | 78 |
| 3 | 96 | 87 | 81 | 75 | 94 | 86 | 80 | 75 | 83 | 78 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | 69 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 64 | 62 | | | | 62 |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 55 | | | | 55 |
| 6 | 78 | 66 | 59 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 50 | | | | 50 |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | 58 | 52 | 47 | 56 | 51 | 47 | 45 | | | | 45 |
| 8 | 68 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 48 | 44 | 53 | 48 | 43 | 52 | 47 | 43 | 41 | | | | 41 |
| 9 | 64 | 53 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 38 | | | | 38 |
| 10 | 61 | 49 | 42 | 37 | 60 | 48 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | 35 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 27509 | 27509 | 27509 |
| 5° | 27166 | 27068 | 27226 |
| 10° | 25666 | 25898 | 26499 |
| 15° | 23693 | 24243 | 25330 |
| 20° | 21516 | 22325 | 23803 |
| 25° | 19298 | 20351 | 22175 |
| 30° | 17255 | 18384 | 20489 |
| 35° | 15089 | 16179 | 18493 |
| 40° | 12700 | 13708 | 16009 |
| 45° | 10481 | 11386 | 13366 |
| 50° | 8751 | 9539 | 11135 |
| 55° | 7428 | 8186 | 9196 |
| 60° | 6349 | 7097 | 7339 |
| 65° | 5056 | 5969 | 4742 |
| 70° | 4483 | 4659 | 2894 |
| 75° | 4149 | 3779 | 1772 |
| 80° | 3825 | 3475 | 1530 |
| 85° | 3462 | 3186 | 1249 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13366 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 273.5 | 6.3 |
| 10°-20° | 711.3 | 16.4 |
| 20°-30° | 921.4 | 21.2 |
| 30°-40° | 902.3 | 20.8 |
| 40°-50° | 690.6 | 15.9 |
| 50°-60° | 460.2 | 10.6 |
| 60°-70° | 251.1 | 5.8 |
| 70°-80° | 104.6 | 2.4 |
| 80°-90° | 29.6 | 0.7 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1906.2 | 43.9 |
| 0°-40° | 2808.5 | 64.6 |
| 0°-60° | 3959.3 | 91.1 |
| 0°-90° | 4344.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4344.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2982 | 2982 | 2982 | 2982 | 2982 | |
| 5° | 2933 | 2904 | 2923 | 2930 | 2940 | 273 |
| 15° | 2480 | 2472 | 2538 | 2607 | 2652 | 693 |
| 25° | 1896 | 1901 | 1999 | 2086 | 2178 | 872 |
| 35° | 1340 | 1346 | 1436 | 1533 | 1642 | 833 |
| 45° | 803 | 819 | 873 | 939 | 1024 | 626 |
| 55° | 462 | 481 | 509 | 528 | 572 | 419 |
| 65° | 232 | 251 | 273 | 239 | 217 | 241 |
| 75° | 116 | 116 | 106 | 73 | 50 | 124 |
| 85° | 33 | 33 | 30 | 19 | 12 | 37 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P521901

CATALOG NUMBER: SQ4-WB-OU-125D-92765-1D-UNV-STD-W-4_3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2981.6 | 2981.6 | 2981.6 | 2981.6 | 2981.6 |
| 2.5° | 2988.9 | 2962.3 | 2969.0 | 2968.8 | 2960.7 |
| 5° | 2933.2 | 2903.8 | 2922.7 | 2929.5 | 2939.7 |
| 7.5° | 2824.3 | 2802.1 | 2836.6 | 2862.2 | 2882.9 |
| 10° | 2739.6 | 2720.4 | 2764.4 | 2801.7 | 2828.5 |
| 12.5° | 2641.2 | 2625.0 | 2679.6 | 2729.6 | 2764.7 |
| 15° | 2480.5 | 2471.6 | 2538.1 | 2607.1 | 2651.9 |
| 17.5° | 2308.6 | 2304.3 | 2380.6 | 2461.1 | 2518.5 |
| 20° | 2191.4 | 2190.1 | 2273.8 | 2357.7 | 2424.3 |
| 22.5° | 2073.1 | 2075.9 | 2163.9 | 2251.2 | 2326.9 |
| 25° | 1895.7 | 1900.8 | 1999.1 | 2086.2 | 2178.3 |
| 27.5° | 1731.6 | 1733.9 | 1835.5 | 1927.5 | 2025.7 |
| 30° | 1619.7 | 1626.1 | 1725.6 | 1820.8 | 1923.2 |
| 32.5° | 1507.7 | 1515.1 | 1612.6 | 1711.0 | 1815.4 |
| 35° | 1339.7 | 1346.1 | 1436.5 | 1533.2 | 1641.9 |
| 37.5° | 1166.5 | 1175.2 | 1255.4 | 1346.8 | 1453.8 |
| 40° | 1054.5 | 1067.3 | 1138.2 | 1224.3 | 1329.2 |
| 42.5° | 946.7 | 962.5 | 1028.3 | 1110.0 | 1204.7 |
| 45° | 803.3 | 818.6 | 872.6 | 938.7 | 1024.4 |
| 47.5° | 679.8 | 697.4 | 738.9 | 795.8 | 869.0 |
| 50° | 609.7 | 626.3 | 664.6 | 706.7 | 775.8 |
| 52.5° | 547.9 | 564.5 | 598.7 | 631.1 | 690.0 |
| 55° | 461.8 | 481.0 | 508.9 | 528.2 | 571.7 |
| 57.5° | 391.2 | 409.6 | 431.7 | 440.4 | 466.8 |
| 60° | 344.1 | 364.5 | 384.6 | 383.6 | 397.7 |
| 62.5° | 301.2 | 318.6 | 338.6 | 324.7 | 325.5 |
| 65° | 231.6 | 250.8 | 273.4 | 238.9 | 217.2 |
| 67.5° | 187.1 | 191.2 | 214.6 | 166.6 | 140.8 |
| 70° | 166.2 | 166.2 | 172.7 | 129.0 | 107.3 |
| 72.5° | 146.3 | 146.3 | 140.2 | 104.9 | 82.2 |
| 75° | 116.4 | 116.4 | 106.0 | 72.7 | 49.7 |
| 77.5° | 89.7 | 88.7 | 81.1 | 54.3 | 36.1 |
| 80° | 72.0 | 72.0 | 65.4 | 42.9 | 28.8 |
| 82.5° | 56.3 | 56.3 | 50.8 | 33.5 | 21.5 |
| 85° | 32.7 | 32.7 | 30.1 | 19.4 | 11.8 |
| 87.5° | 11.5 | 11.5 | 10.5 | 6.3 | 5.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)