

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: P520969

Luminaire Tested: SQ4-150U-0D-92765-1D-UNV-STD-W-4_5700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P520969
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-150U-0D-92765-1D-UNV-STD-W-4_5700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
INDIRECT ONLY
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

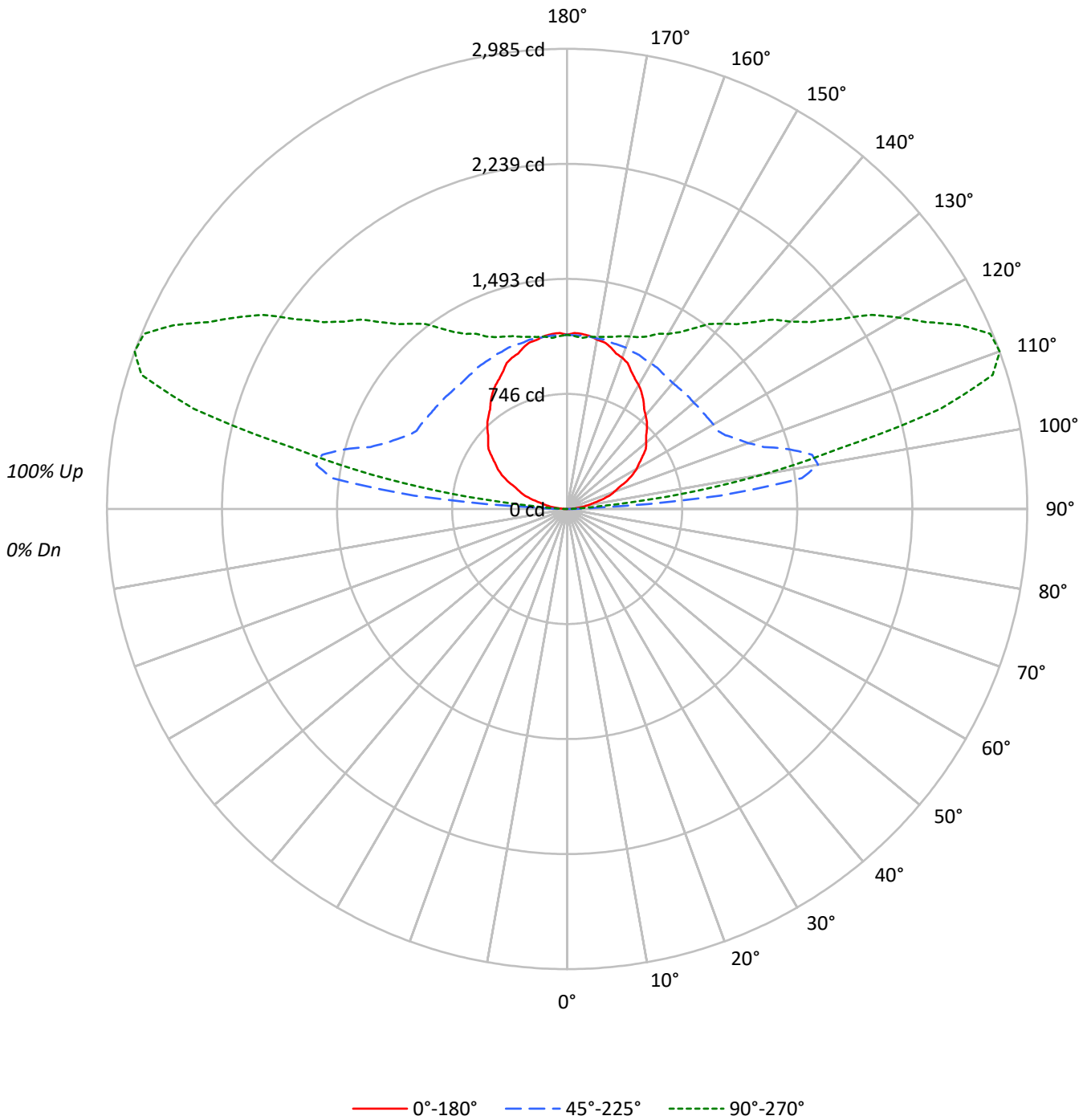
Lumens per Lamp: N/A
Luminaire Lumens: 7022.7 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 51
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: P520969
CATALOG NUMBER: SQ4-150U-0D-92765-1D-UNV-STD-W-4_5700K

Luminous Intensity Polar Plot



TEST NUMBER: P520969

CATALOG NUMBER: SQ4-150U-0D-92765-1D-UNV-STD-W-4_5700K

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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 57 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0° | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 0°
 Luminance: 0 cd/sqm

TEST NUMBER: P520969

CATALOG NUMBER: SQ4-150U-0D-92765-1D-UNV-STD-W-4_5700K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 515.2 | 7.3 |
| 100°-110° | 1465.8 | 20.9 |
| 110°-120° | 1404.4 | 20.0 |
| 120°-130° | 1111.5 | 15.8 |
| 130°-140° | 892.2 | 12.7 |
| 140°-150° | 698.5 | 9.9 |
| 150°-160° | 511.1 | 7.3 |
| 160°-170° | 316.6 | 4.5 |
| 170°-180° | 107.4 | 1.5 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 0.0 | 0.0 |
| 90°-120° | 3385.4 | 48.2 |
| 90°-150° | 6087.6 | 86.7 |
| 90°-180° | 7023.0 | 100.0 |
| 0°-180° | 7022.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 0 | 0 | 0 | 0 | 0 | |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 56 | 222 | 997 | 345 | 213 | 64 |
| 105° | 228 | 346 | 1494 | 2639 | 2508 | 241 |
| 115° | 423 | 512 | 1133 | 2400 | 2818 | 417 |
| 125° | 598 | 663 | 1081 | 1794 | 2145 | 535 |
| 135° | 731 | 792 | 1068 | 1516 | 1713 | 564 |
| 145° | 862 | 906 | 1077 | 1312 | 1429 | 538 |
| 155° | 984 | 1008 | 1103 | 1185 | 1234 | 455 |
| 165° | 1088 | 1092 | 1116 | 1140 | 1156 | 306 |
| 175° | 1139 | 1133 | 1128 | 1122 | 1113 | 108 |
| 180° | 1131 | 1131 | 1131 | 1131 | 1131 | |

TEST NUMBER: P520969

CATALOG NUMBER: SQ4-150U-0D-92765-1D-UNV-STD-W-4_5700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 17.2 | 91.2 | 211.5 | 61.6 | 46.4 |
| 95° | 55.9 | 221.9 | 997.3 | 345.2 | 212.8 |
| 97.5° | 102.7 | 259.9 | 1535.9 | 1099.1 | 753.1 |
| 100° | 135.4 | 282.5 | 1652.8 | 1674.2 | 1289.6 |
| 102.5° | 171.5 | 306.9 | 1627.1 | 2143.0 | 1807.2 |
| 105° | 227.8 | 345.5 | 1493.8 | 2638.6 | 2508.3 |
| 107.5° | 285.0 | 390.5 | 1338.2 | 2778.3 | 2894.3 |
| 110° | 324.6 | 423.3 | 1248.8 | 2724.8 | 2985.4 |

TEST NUMBER: P520969

CATALOG NUMBER: SQ4-150U-0D-92765-1D-UNV-STD-W-4_5700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 362.4 | 456.1 | 1188.6 | 2598.4 | 2970.0 |
| 115° | 423.4 | 511.7 | 1132.7 | 2399.6 | 2817.8 |
| 117.5° | 477.2 | 560.0 | 1099.6 | 2182.2 | 2625.2 |
| 120° | 520.1 | 589.5 | 1096.2 | 2058.0 | 2482.5 |
| 122.5° | 554.5 | 623.9 | 1087.6 | 1949.0 | 2343.2 |
| 125° | 597.5 | 662.7 | 1081.1 | 1794.1 | 2145.0 |
| 127.5° | 644.4 | 705.3 | 1077.7 | 1701.5 | 1990.7 |
| 130° | 668.4 | 729.4 | 1072.5 | 1637.1 | 1889.3 |
| 132.5° | 694.2 | 753.5 | 1072.5 | 1586.8 | 1818.8 |
| 135° | 730.8 | 791.7 | 1068.2 | 1515.5 | 1713.0 |
| 137.5° | 765.2 | 824.4 | 1067.8 | 1455.1 | 1625.8 |
| 140° | 791.0 | 851.9 | 1066.1 | 1405.1 | 1569.0 |
| 142.5° | 820.2 | 871.0 | 1071.2 | 1365.2 | 1512.3 |
| 145° | 861.9 | 906.0 | 1076.8 | 1311.6 | 1429.3 |
| 147.5° | 897.6 | 940.4 | 1086.3 | 1257.5 | 1359.2 |
| 150° | 928.5 | 957.9 | 1089.7 | 1239.6 | 1311.1 |
| 152.5° | 952.6 | 983.7 | 1093.2 | 1215.5 | 1281.9 |
| 155° | 984.4 | 1007.5 | 1102.6 | 1185.4 | 1233.7 |
| 157.5° | 1023.9 | 1037.8 | 1104.8 | 1171.7 | 1206.2 |
| 160° | 1044.6 | 1055.1 | 1113.4 | 1161.3 | 1190.7 |
| 162.5° | 1056.6 | 1068.8 | 1115.1 | 1152.6 | 1175.3 |
| 165° | 1087.6 | 1091.8 | 1115.5 | 1139.5 | 1156.3 |
| 167.5° | 1108.6 | 1104.8 | 1125.4 | 1136.3 | 1143.0 |
| 170° | 1115.5 | 1113.4 | 1122.0 | 1124.3 | 1132.7 |
| 172.5° | 1131.0 | 1123.8 | 1127.1 | 1120.8 | 1127.5 |
| 175° | 1139.2 | 1132.8 | 1128.4 | 1121.8 | 1113.4 |
| 177.5° | 1142.6 | 1132.5 | 1127.1 | 1120.3 | 1122.0 |
| 180° | 1130.6 | 1130.6 | 1130.6 | 1130.6 | 1130.6 |

(END OF REPORT)