

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P520948

Luminaire Tested: **SQ4-100U-0D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P520948
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-100U-0D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
INDIRECT ONLY
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

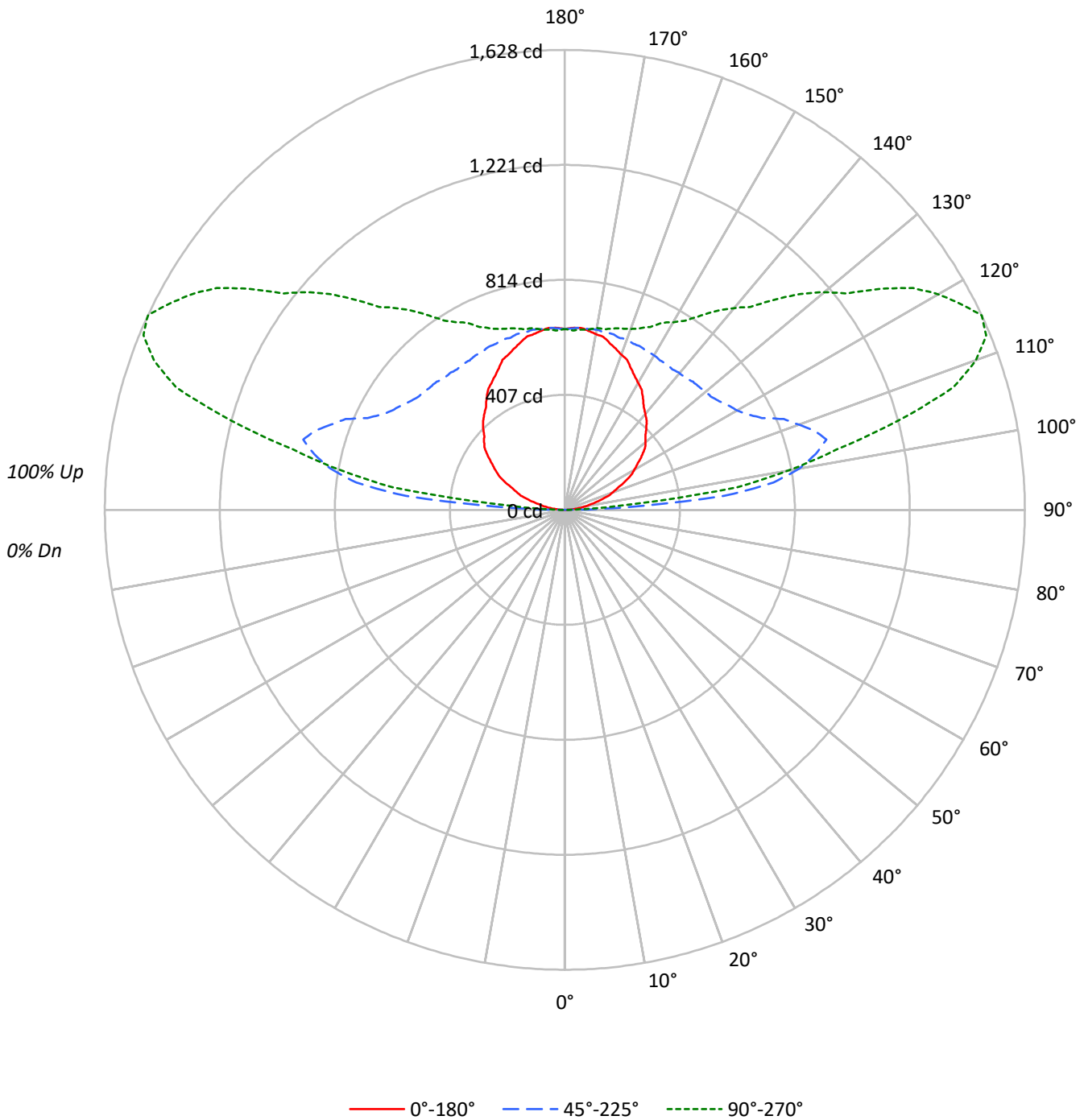
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4144.4 lumens
Efficiency: N/A
Efficacy: 128.3 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): 32.3
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





TEST NUMBER: P520948

CATALOG NUMBER: SQ4-100U-0D-93050-1D-UNV-STD-W-4 (4500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RF | 20 | | | | | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | | | | | 50 | | | | 30 | | | | 10 | |
| 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 |



TEST NUMBER: P520948

CATALOG NUMBER: SQ4-100U-0D-93050-1D-UNV-STD-W-4 (4500K)

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° | 330.0 | 8.0 |
| 100°-110° | 797.5 | 19.2 |
| 110°-120° | 850.5 | 20.5 |
| 120°-130° | 688.9 | 16.6 |
| 130°-140° | 533.4 | 12.9 |
| 140°-150° | 406.9 | 9.8 |
| 150°-160° | 294.5 | 7.1 |
| 160°-170° | 181.4 | 4.4 |
| 170°-180° | 61.4 | 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° | 1978.0 | 47.7 |
| 90°-150° | 3607.1 | 87.0 |
| 90°-180° | 4144.0 | 100.0 |
| 0°-180° | 4144.4 | 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 | 1 |
| 95° | 32 | 165 | 565 | 368 | 258 | 37 |
| 105° | 127 | 220 | 958 | 1240 | 1224 | 135 |
| 115° | 233 | 298 | 770 | 1460 | 1628 | 231 |
| 125° | 332 | 382 | 668 | 1161 | 1364 | 296 |
| 135° | 408 | 456 | 641 | 916 | 1053 | 315 |
| 145° | 483 | 518 | 629 | 778 | 839 | 302 |
| 155° | 553 | 577 | 637 | 689 | 714 | 255 |
| 165° | 611 | 621 | 645 | 655 | 664 | 173 |
| 175° | 647 | 644 | 647 | 641 | 640 | 61 |
| 180° | 640 | 640 | 640 | 640 | 640 | |



TEST NUMBER: P520948

CATALOG NUMBER: SQ4-100U-0D-93050-1D-UNV-STD-W-4 (4500K)

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° | 10.8 | 89.3 | 210.4 | 102.3 | 69.4 |
| 95° | 32.5 | 165.1 | 565.3 | 367.6 | 257.6 |
| 97.5° | 57.8 | 182.9 | 744.6 | 717.3 | 615.8 |
| 100° | 77.3 | 193.9 | 843.3 | 890.2 | 806.6 |
| 102.5° | 95.7 | 203.9 | 908.3 | 1034.1 | 984.5 |
| 105° | 127.4 | 220.2 | 958.5 | 1240.1 | 1224.2 |
| 107.5° | 158.6 | 239.5 | 928.9 | 1405.4 | 1442.7 |
| 110° | 180.3 | 255.9 | 881.2 | 1476.6 | 1546.9 |

TEST NUMBER: P520948

CATALOG NUMBER: SQ4-100U-0D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 202.0 | 272.3 | 838.9 | 1494.0 | 1614.1 |
| 115° | 233.2 | 298.1 | 770.0 | 1459.9 | 1628.2 |
| 117.5° | 264.1 | 325.3 | 729.6 | 1381.3 | 1578.6 |
| 120° | 284.7 | 341.7 | 703.6 | 1319.7 | 1526.5 |
| 122.5° | 306.4 | 359.1 | 687.3 | 1256.8 | 1460.4 |
| 125° | 332.1 | 382.5 | 668.4 | 1161.0 | 1363.8 |
| 127.5° | 357.6 | 405.1 | 655.1 | 1079.9 | 1258.1 |
| 130° | 372.8 | 419.2 | 650.7 | 1023.5 | 1198.4 |
| 132.5° | 386.9 | 435.4 | 644.2 | 982.7 | 1131.2 |
| 135° | 408.1 | 455.8 | 641.2 | 915.5 | 1053.4 |
| 137.5° | 428.1 | 476.1 | 631.8 | 870.0 | 973.9 |
| 140° | 443.3 | 487.1 | 631.8 | 837.3 | 932.7 |
| 142.5° | 458.5 | 502.2 | 626.3 | 808.7 | 889.3 |
| 145° | 482.6 | 518.4 | 629.0 | 778.2 | 839.2 |
| 147.5° | 505.1 | 539.9 | 627.4 | 743.0 | 793.4 |
| 150° | 519.2 | 549.7 | 631.8 | 727.6 | 767.3 |
| 152.5° | 534.4 | 563.8 | 630.7 | 711.2 | 746.7 |
| 155° | 553.1 | 577.0 | 637.2 | 689.3 | 714.5 |
| 157.5° | 575.6 | 596.0 | 635.8 | 680.9 | 695.7 |
| 160° | 584.3 | 601.5 | 641.2 | 670.0 | 680.6 |
| 162.5° | 598.4 | 613.5 | 639.1 | 666.6 | 673.0 |
| 165° | 611.4 | 620.7 | 645.3 | 655.0 | 664.3 |
| 167.5° | 627.4 | 633.5 | 643.7 | 654.3 | 654.5 |
| 170° | 631.8 | 635.7 | 648.0 | 646.8 | 653.5 |
| 172.5° | 639.4 | 642.3 | 644.8 | 647.7 | 643.7 |
| 175° | 646.7 | 644.0 | 646.7 | 641.2 | 639.9 |
| 177.5° | 645.3 | 645.3 | 643.1 | 640.9 | 635.6 |
| 180° | 639.9 | 639.9 | 639.9 | 639.9 | 639.9 |

(END OF REPORT)