

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: P520934

Luminaire Tested: **SQ4-075U-0D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P520934
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: SQ4-075U-0D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
INDIRECT ONLY
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

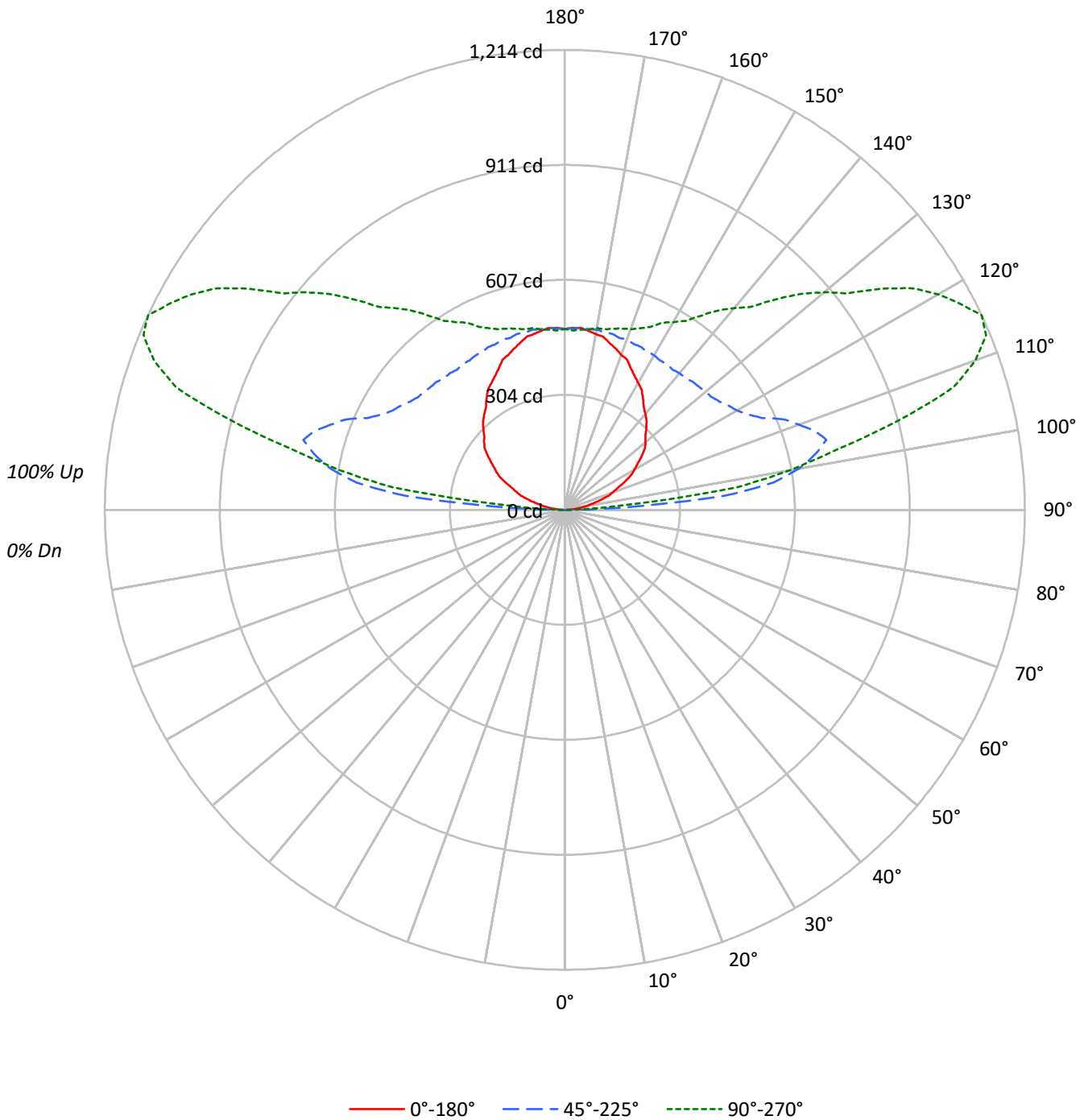
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3089.6 lumens
Efficiency: N/A
Efficacy: 130.9 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): 23.6
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: P520934

CATALOG NUMBER: SQ4-075U-0D-93050-1D-UNV-STD-W-4 (4000K)

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

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 |



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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° | 246.0 | 8.0 |
| 100°-110° | 594.5 | 19.2 |
| 110°-120° | 634.1 | 20.5 |
| 120°-130° | 513.5 | 16.6 |
| 130°-140° | 397.6 | 12.9 |
| 140°-150° | 303.3 | 9.8 |
| 150°-160° | 219.6 | 7.1 |
| 160°-170° | 135.2 | 4.4 |
| 170°-180° | 45.8 | 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° | 1474.5 | 47.7 |
| 90°-150° | 2689.0 | 87.0 |
| 90°-180° | 3090.0 | 100.0 |
| 0°-180° | 3089.6 | 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° | 24 | 123 | 421 | 274 | 192 | 27 |
| 105° | 95 | 164 | 714 | 924 | 913 | 100 |
| 115° | 174 | 222 | 574 | 1088 | 1214 | 172 |
| 125° | 248 | 285 | 498 | 866 | 1017 | 221 |
| 135° | 304 | 340 | 478 | 682 | 785 | 235 |
| 145° | 360 | 386 | 469 | 580 | 626 | 225 |
| 155° | 412 | 430 | 475 | 514 | 533 | 190 |
| 165° | 456 | 463 | 481 | 488 | 495 | 129 |
| 175° | 482 | 480 | 482 | 478 | 477 | 46 |
| 180° | 477 | 477 | 477 | 477 | 477 | |



TEST NUMBER: P520934

CATALOG NUMBER: SQ4-075U-0D-93050-1D-UNV-STD-W-4 (4000K)

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° | 8.1 | 66.6 | 156.9 | 76.3 | 51.7 |
| 95° | 24.3 | 123.1 | 421.4 | 274.0 | 192.0 |
| 97.5° | 43.1 | 136.3 | 555.0 | 534.7 | 459.0 |
| 100° | 57.6 | 144.6 | 628.6 | 663.6 | 601.3 |
| 102.5° | 71.4 | 152.0 | 677.1 | 770.9 | 733.9 |
| 105° | 95.0 | 164.2 | 714.5 | 924.5 | 912.6 |
| 107.5° | 118.2 | 178.5 | 692.5 | 1047.7 | 1075.5 |
| 110° | 134.4 | 190.7 | 656.9 | 1100.8 | 1153.1 |



TEST NUMBER: P520934

CATALOG NUMBER: SQ4-075U-0D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 150.6 | 203.0 | 625.4 | 1113.7 | 1203.3 |
| 115° | 173.8 | 222.3 | 574.0 | 1088.3 | 1213.8 |
| 117.5° | 196.9 | 242.5 | 543.9 | 1029.8 | 1176.8 |
| 120° | 212.2 | 254.7 | 524.5 | 983.8 | 1138.0 |
| 122.5° | 228.4 | 267.7 | 512.4 | 936.9 | 1088.7 |
| 125° | 247.6 | 285.2 | 498.2 | 865.5 | 1016.7 |
| 127.5° | 266.6 | 302.0 | 488.3 | 805.1 | 937.9 |
| 130° | 277.9 | 312.5 | 485.1 | 763.0 | 893.4 |
| 132.5° | 288.4 | 324.6 | 480.3 | 732.6 | 843.3 |
| 135° | 304.2 | 339.8 | 478.0 | 682.5 | 785.3 |
| 137.5° | 319.2 | 354.9 | 471.0 | 648.6 | 726.0 |
| 140° | 330.5 | 363.1 | 471.0 | 624.2 | 695.3 |
| 142.5° | 341.8 | 374.4 | 466.9 | 602.9 | 663.0 |
| 145° | 359.8 | 386.5 | 468.9 | 580.1 | 625.6 |
| 147.5° | 376.6 | 402.5 | 467.7 | 553.9 | 591.4 |
| 150° | 387.1 | 409.8 | 471.0 | 542.4 | 572.0 |
| 152.5° | 398.4 | 420.3 | 470.2 | 530.2 | 556.7 |
| 155° | 412.3 | 430.1 | 475.0 | 513.8 | 532.6 |
| 157.5° | 429.1 | 444.3 | 474.0 | 507.6 | 518.7 |
| 160° | 435.6 | 448.4 | 478.0 | 499.4 | 507.3 |
| 162.5° | 446.1 | 457.4 | 476.4 | 496.9 | 501.7 |
| 165° | 455.8 | 462.7 | 481.1 | 488.3 | 495.2 |
| 167.5° | 467.7 | 472.3 | 479.9 | 487.7 | 487.9 |
| 170° | 471.0 | 473.9 | 483.1 | 482.2 | 487.1 |
| 172.5° | 476.6 | 478.8 | 480.7 | 482.8 | 479.9 |
| 175° | 482.1 | 480.1 | 482.1 | 478.0 | 477.0 |
| 177.5° | 481.1 | 481.1 | 479.4 | 477.7 | 473.8 |
| 180° | 477.0 | 477.0 | 477.0 | 477.0 | 477.0 |

(END OF REPORT)