

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: P563502

Luminaire Tested: **SQ4-PP3-0U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563502
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

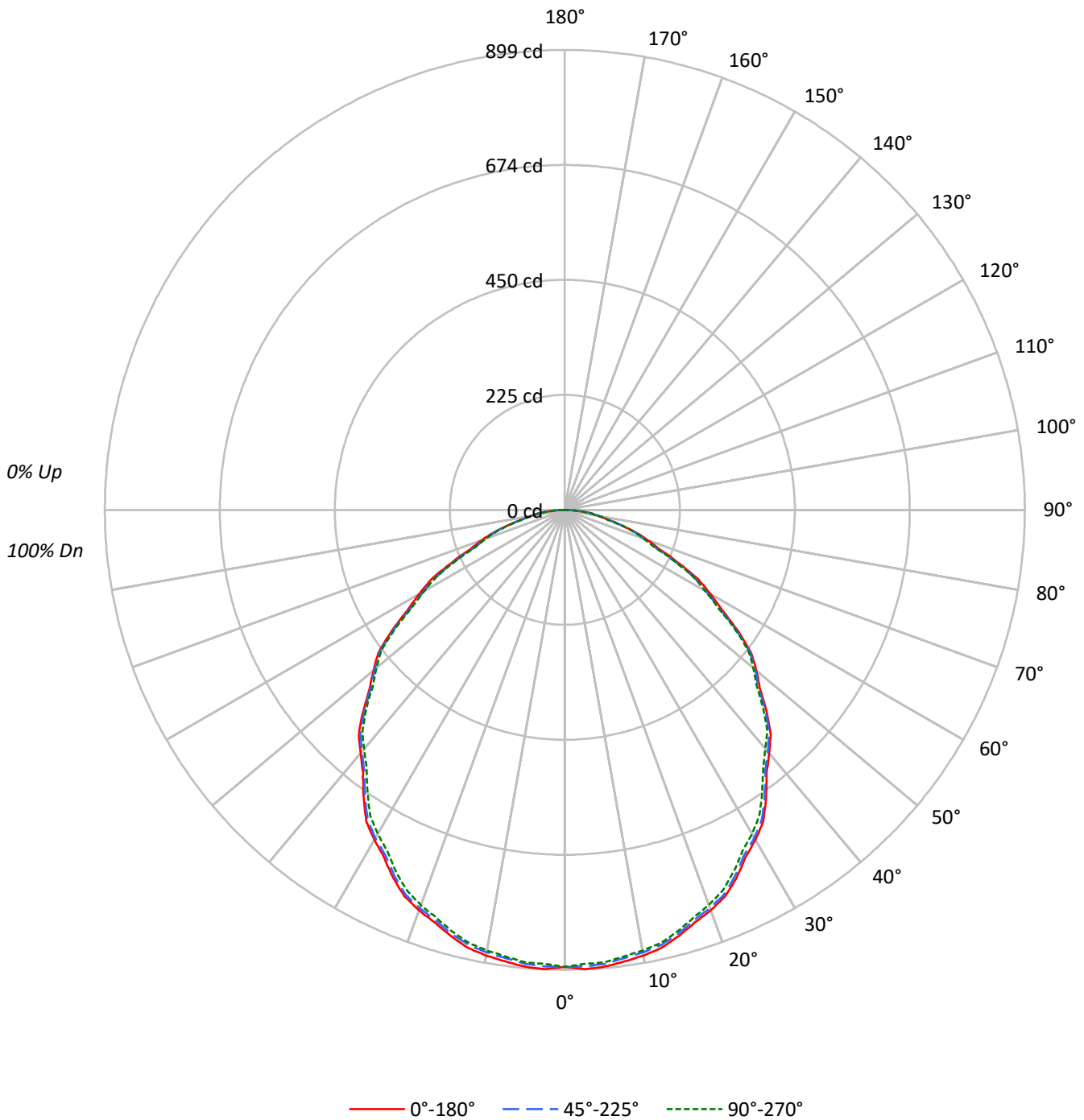
Lumens per Lamp: N/A
Luminaire Lumens: 2286.3 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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: P563502

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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 | 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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | | 72 |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 64 | 72 | 67 | 63 | 61 | | | | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | | | | 53 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 49 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 | | | | 46 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 49 | 43 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 42 | 40 | | | | 40 |
| 7 | 66 | 53 | 45 | 39 | 65 | 52 | 44 | 39 | 51 | 44 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | | | | 36 |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 34 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | | 32 |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 29 | | | | 29 |
| 10 | 54 | 41 | 34 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8242 | 8242 | 8242 |
| 5° | 8302 | 8251 | 8222 |
| 10° | 8288 | 8229 | 8193 |
| 15° | 8234 | 8189 | 8144 |
| 20° | 8179 | 8133 | 8071 |
| 25° | 8081 | 8026 | 7945 |
| 30° | 7932 | 7890 | 7790 |
| 35° | 7724 | 7671 | 7574 |
| 40° | 7477 | 7430 | 7346 |
| 45° | 7273 | 7222 | 7150 |
| 50° | 7012 | 6967 | 6900 |
| 55° | 6650 | 6561 | 6511 |
| 60° | 6052 | 5879 | 5851 |
| 65° | 5333 | 5111 | 5093 |
| 70° | 4605 | 4413 | 4413 |
| 75° | 3964 | 3907 | 3850 |
| 80° | 3496 | 3533 | 3454 |
| 85° | 2731 | 2985 | 2985 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.5 | 3.7 |
| 10°-20° | 241.2 | 10.5 |
| 20°-30° | 361.3 | 15.8 |
| 30°-40° | 423.7 | 18.5 |
| 40°-50° | 425.1 | 18.6 |
| 50°-60° | 362.6 | 15.9 |
| 60°-70° | 236.5 | 10.3 |
| 70°-80° | 118.6 | 5.2 |
| 80°-90° | 32.8 | 1.4 |
| 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° | 686.9 | 30.0 |
| 0°-40° | 1110.6 | 48.6 |
| 0°-60° | 1898.3 | 83.0 |
| 0°-90° | 2286.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2286.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 893 | 893 | 893 | 893 | 893 | |
| 5° | 896 | 888 | 891 | 888 | 888 | 85 |
| 15° | 862 | 854 | 857 | 854 | 853 | 243 |
| 25° | 794 | 785 | 788 | 781 | 780 | 365 |
| 35° | 686 | 679 | 681 | 673 | 672 | 428 |
| 45° | 557 | 554 | 554 | 548 | 548 | 429 |
| 55° | 413 | 412 | 408 | 406 | 405 | 367 |
| 65° | 244 | 240 | 234 | 232 | 233 | 244 |
| 75° | 111 | 111 | 110 | 109 | 108 | 121 |
| 85° | 26 | 28 | 28 | 28 | 28 | 31 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 893.3 | 893.3 | 893.3 | 893.3 | 893.3 |
| 2.5° | 898.9 | 891.6 | 893.3 | 891.9 | 888.3 |
| 5° | 896.4 | 888.0 | 890.9 | 887.8 | 887.8 |
| 7.5° | 890.3 | 881.1 | 884.0 | 880.9 | 880.7 |
| 10° | 884.7 | 875.5 | 878.4 | 875.3 | 874.5 |
| 12.5° | 876.5 | 867.3 | 870.9 | 867.1 | 867.0 |
| 15° | 862.0 | 853.5 | 857.3 | 854.1 | 852.6 |
| 17.5° | 845.5 | 836.3 | 840.8 | 836.4 | 835.8 |
| 20° | 833.0 | 823.8 | 828.3 | 822.0 | 822.0 |
| 22.5° | 818.0 | 808.8 | 813.9 | 805.7 | 805.7 |
| 25° | 793.8 | 784.7 | 788.4 | 781.3 | 780.5 |
| 27.5° | 765.2 | 756.2 | 760.0 | 752.0 | 751.9 |
| 30° | 744.5 | 736.1 | 740.6 | 732.0 | 731.2 |
| 32.5° | 722.0 | 714.2 | 717.4 | 708.8 | 708.0 |
| 35° | 685.8 | 678.9 | 681.1 | 673.3 | 672.5 |
| 37.5° | 647.8 | 640.7 | 643.2 | 636.5 | 636.2 |
| 40° | 620.8 | 616.2 | 616.9 | 611.4 | 609.9 |
| 42.5° | 595.8 | 590.6 | 591.2 | 585.7 | 585.4 |
| 45° | 557.4 | 553.6 | 553.5 | 548.0 | 548.0 |
| 47.5° | 516.7 | 513.8 | 512.9 | 508.4 | 508.3 |
| 50° | 488.5 | 486.2 | 485.4 | 481.5 | 480.7 |
| 52.5° | 459.1 | 458.0 | 455.3 | 452.0 | 451.9 |
| 55° | 413.4 | 411.8 | 407.9 | 405.5 | 404.8 |
| 57.5° | 363.7 | 360.7 | 356.2 | 352.8 | 353.4 |
| 60° | 328.0 | 325.0 | 318.6 | 317.1 | 317.1 |
| 62.5° | 293.6 | 289.9 | 283.6 | 281.4 | 282.6 |
| 65° | 244.3 | 239.7 | 234.1 | 232.5 | 233.3 |
| 67.5° | 199.5 | 195.3 | 189.3 | 189.3 | 188.7 |
| 70° | 170.7 | 168.4 | 163.6 | 163.6 | 163.6 |
| 72.5° | 145.0 | 143.9 | 140.4 | 140.4 | 139.8 |
| 75° | 111.2 | 111.2 | 109.6 | 108.8 | 108.0 |
| 77.5° | 83.3 | 83.6 | 82.8 | 82.0 | 80.6 |
| 80° | 65.8 | 67.3 | 66.5 | 65.7 | 65.0 |
| 82.5° | 49.5 | 51.0 | 50.9 | 49.5 | 49.3 |
| 85° | 25.8 | 28.1 | 28.2 | 28.2 | 28.2 |
| 87.5° | 6.9 | 9.3 | 10.0 | 10.0 | 10.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)