

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: P563194

Luminaire Tested: **SQ4-PP3-025U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563194
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

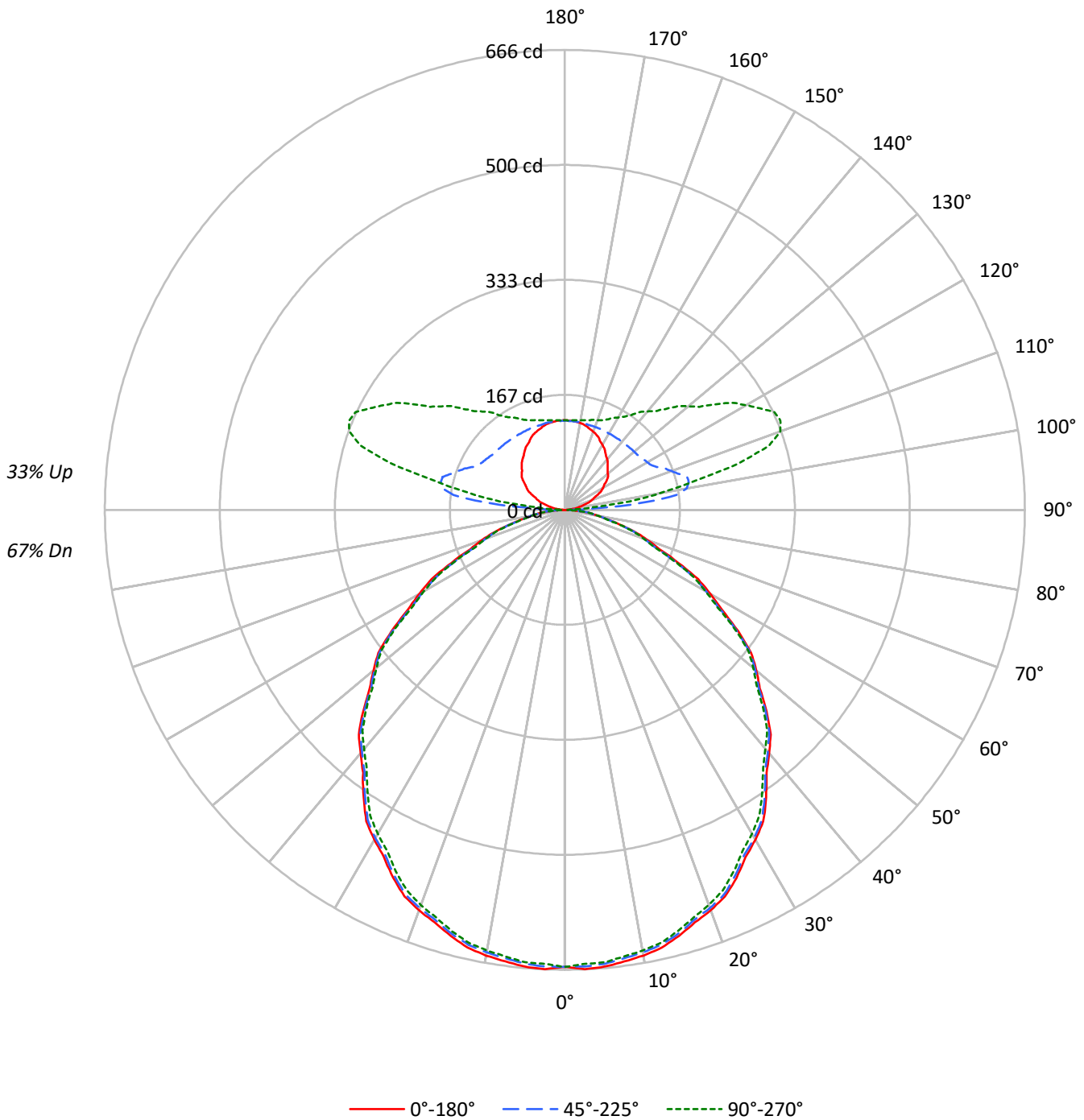
Lumens per Lamp: N/A
Luminaire Lumens: 2533.7 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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





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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 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 67 | | | | |
| 1 | 102 | 98 | 94 | 90 | 96 | 92 | 89 | 86 | 82 | 79 | 77 | 72 | 71 | 69 | 64 | 62 | 61 | 57 | | | | |
| 2 | 93 | 85 | 79 | 74 | 87 | 81 | 75 | 71 | 72 | 68 | 64 | 64 | 61 | 58 | 56 | 54 | 52 | 48 | | | | |
| 3 | 85 | 75 | 68 | 62 | 80 | 71 | 65 | 59 | 64 | 58 | 54 | 57 | 53 | 49 | 50 | 47 | 44 | 41 | | | | |
| 4 | 78 | 67 | 59 | 53 | 73 | 63 | 56 | 51 | 57 | 51 | 46 | 51 | 46 | 42 | 45 | 41 | 38 | 35 | | | | |
| 5 | 72 | 60 | 51 | 45 | 67 | 57 | 49 | 44 | 51 | 45 | 40 | 46 | 41 | 37 | 41 | 37 | 33 | 31 | | | | |
| 6 | 66 | 54 | 45 | 39 | 62 | 51 | 43 | 38 | 46 | 40 | 35 | 41 | 36 | 32 | 37 | 33 | 30 | 27 | | | | |
| 7 | 61 | 49 | 40 | 35 | 57 | 46 | 39 | 34 | 42 | 36 | 31 | 38 | 32 | 29 | 34 | 29 | 26 | 24 | | | | |
| 8 | 57 | 44 | 36 | 31 | 53 | 42 | 35 | 30 | 38 | 32 | 28 | 34 | 29 | 26 | 31 | 27 | 24 | 21 | | | | |
| 9 | 53 | 40 | 33 | 28 | 50 | 39 | 32 | 27 | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 24 | 21 | 19 | | | | |
| 10 | 50 | 37 | 30 | 25 | 47 | 36 | 29 | 24 | 32 | 27 | 23 | 29 | 24 | 21 | 26 | 22 | 19 | 17 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6106 | 6106 | 6106 |
| 5° | 6151 | 6113 | 6091 |
| 10° | 6140 | 6097 | 6070 |
| 15° | 6100 | 6066 | 6033 |
| 20° | 6059 | 6025 | 5979 |
| 25° | 5987 | 5946 | 5887 |
| 30° | 5876 | 5846 | 5771 |
| 35° | 5723 | 5683 | 5611 |
| 40° | 5539 | 5504 | 5441 |
| 45° | 5389 | 5351 | 5297 |
| 50° | 5195 | 5161 | 5111 |
| 55° | 4925 | 4861 | 4824 |
| 60° | 4484 | 4357 | 4334 |
| 65° | 3951 | 3786 | 3772 |
| 70° | 3410 | 3269 | 3269 |
| 75° | 2937 | 2895 | 2852 |
| 80° | 2588 | 2619 | 2556 |
| 85° | 2022 | 2212 | 2212 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.6 | 2.5 |
| 10°-20° | 178.7 | 7.1 |
| 20°-30° | 267.6 | 10.6 |
| 30°-40° | 313.9 | 12.4 |
| 40°-50° | 314.9 | 12.4 |
| 50°-60° | 268.6 | 10.6 |
| 60°-70° | 175.2 | 6.9 |
| 70°-80° | 87.9 | 3.5 |
| 80°-90° | 25.0 | 1.0 |
| 90°-100° | 63.1 | 2.5 |
| 100°-110° | 165.9 | 6.5 |
| 110°-120° | 172.0 | 6.8 |
| 120°-130° | 138.0 | 5.4 |
| 130°-140° | 108.3 | 4.3 |
| 140°-150° | 83.1 | 3.3 |
| 150°-160° | 59.9 | 2.4 |
| 160°-170° | 36.6 | 1.4 |
| 170°-180° | 12.4 | 0.5 |
| 0°-30° | 508.9 | 20.1 |
| 0°-40° | 822.8 | 32.5 |
| 0°-60° | 1406.3 | 55.5 |
| 0°-90° | 1694.5 | 66.9 |
| 90°-120° | 401.1 | 15.8 |
| 90°-150° | 730.4 | 28.8 |
| 90°-180° | 839.0 | 33.1 |
| 0°-180° | 2533.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 662 | 662 | 662 | 662 | 662 | |
| 5° | 664 | 658 | 660 | 658 | 658 | 63 |
| 15° | 639 | 632 | 635 | 633 | 632 | 180 |
| 25° | 588 | 581 | 584 | 579 | 578 | 270 |
| 35° | 508 | 503 | 505 | 499 | 498 | 317 |
| 45° | 413 | 410 | 410 | 406 | 406 | 318 |
| 55° | 306 | 305 | 302 | 300 | 300 | 272 |
| 65° | 181 | 178 | 173 | 172 | 173 | 181 |
| 75° | 82 | 82 | 81 | 81 | 80 | 89 |
| 85° | 19 | 21 | 21 | 21 | 21 | 23 |
| 90° | 1 | 2 | 7 | 3 | 3 | 1 |
| 95° | 8 | 33 | 109 | 56 | 38 | 9 |
| 105° | 30 | 45 | 183 | 278 | 260 | 32 |
| 115° | 53 | 64 | 147 | 293 | 334 | 52 |
| 125° | 74 | 83 | 134 | 226 | 266 | 66 |
| 135° | 88 | 97 | 130 | 182 | 207 | 68 |
| 145° | 102 | 109 | 128 | 156 | 168 | 64 |
| 155° | 115 | 119 | 128 | 140 | 144 | 53 |
| 165° | 124 | 126 | 128 | 133 | 134 | 35 |
| 175° | 130 | 130 | 129 | 130 | 130 | 12 |
| 180° | 130 | 130 | 130 | 130 | 130 | |

TEST NUMBER: P563194

CATALOG NUMBER: SQ4-PP3-025U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 661.8 | 661.8 | 661.8 | 661.8 | 661.8 |
| 2.5° | 665.9 | 660.5 | 661.8 | 660.8 | 658.1 |
| 5° | 664.1 | 657.9 | 660.0 | 657.7 | 657.7 |
| 7.5° | 659.6 | 652.8 | 654.9 | 652.6 | 652.5 |
| 10° | 655.4 | 648.6 | 650.8 | 648.4 | 647.9 |
| 12.5° | 649.4 | 642.6 | 645.2 | 642.4 | 642.3 |
| 15° | 638.6 | 632.3 | 635.1 | 632.7 | 631.6 |
| 17.5° | 626.4 | 619.6 | 622.9 | 619.7 | 619.2 |
| 20° | 617.1 | 610.3 | 613.6 | 609.0 | 609.0 |
| 22.5° | 606.0 | 599.2 | 603.0 | 596.9 | 596.9 |
| 25° | 588.1 | 581.3 | 584.1 | 578.8 | 578.3 |
| 27.5° | 566.9 | 560.2 | 563.1 | 557.1 | 557.0 |
| 30° | 551.6 | 545.3 | 548.7 | 542.3 | 541.7 |
| 32.5° | 534.9 | 529.1 | 531.5 | 525.1 | 524.5 |
| 35° | 508.1 | 503.0 | 504.6 | 498.8 | 498.2 |
| 37.5° | 479.9 | 474.7 | 476.5 | 471.5 | 471.3 |
| 40° | 459.9 | 456.5 | 457.0 | 452.9 | 451.8 |
| 42.5° | 441.4 | 437.5 | 438.0 | 433.9 | 433.7 |
| 45° | 413.0 | 410.1 | 410.1 | 406.0 | 406.0 |
| 47.5° | 382.8 | 380.6 | 380.0 | 376.6 | 376.5 |
| 50° | 361.9 | 360.2 | 359.6 | 356.7 | 356.1 |
| 52.5° | 340.1 | 339.3 | 337.3 | 334.9 | 334.8 |
| 55° | 306.2 | 305.1 | 302.2 | 300.4 | 299.9 |
| 57.5° | 269.5 | 267.2 | 263.9 | 261.4 | 261.8 |
| 60° | 243.0 | 240.7 | 236.1 | 234.9 | 234.9 |
| 62.5° | 217.5 | 214.8 | 210.1 | 208.5 | 209.4 |
| 65° | 181.0 | 177.6 | 173.4 | 172.3 | 172.8 |
| 67.5° | 147.8 | 144.7 | 140.2 | 140.2 | 139.8 |
| 70° | 126.4 | 124.7 | 121.2 | 121.2 | 121.2 |
| 72.5° | 107.4 | 106.6 | 104.1 | 104.0 | 103.6 |
| 75° | 82.4 | 82.4 | 81.2 | 80.6 | 80.0 |
| 77.5° | 61.7 | 61.9 | 61.4 | 60.8 | 59.7 |
| 80° | 48.7 | 49.9 | 49.3 | 48.7 | 48.1 |
| 82.5° | 36.7 | 37.8 | 37.7 | 36.7 | 36.5 |
| 85° | 19.1 | 20.8 | 20.9 | 20.9 | 20.9 |
| 87.5° | 5.3 | 7.4 | 8.8 | 8.1 | 8.6 |
| 90° | 0.8 | 2.5 | 6.6 | 3.3 | 3.3 |
| 92.5° | 3.5 | 16.8 | 37.2 | 16.5 | 10.6 |
| 95° | 8.3 | 32.6 | 108.7 | 56.0 | 38.2 |
| 97.5° | 14.4 | 35.9 | 162.7 | 129.4 | 95.3 |
| 100° | 19.1 | 38.6 | 179.3 | 181.7 | 141.1 |
| 102.5° | 23.1 | 41.3 | 183.9 | 226.3 | 191.6 |
| 105° | 29.9 | 45.3 | 183.4 | 278.5 | 259.8 |
| 107.5° | 36.9 | 51.1 | 173.0 | 305.6 | 310.1 |
| 110° | 41.5 | 54.5 | 164.3 | 312.5 | 332.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 46.2 | 58.5 | 156.4 | 308.1 | 338.0 |
| 115° | 53.1 | 64.5 | 146.9 | 293.1 | 334.5 |
| 117.5° | 59.9 | 70.3 | 140.4 | 272.3 | 318.2 |
| 120° | 63.9 | 73.7 | 137.8 | 258.3 | 303.0 |
| 122.5° | 67.9 | 77.6 | 135.8 | 244.4 | 288.4 |
| 125° | 73.9 | 82.8 | 133.6 | 225.9 | 266.4 |
| 127.5° | 78.7 | 87.8 | 131.8 | 210.9 | 245.2 |
| 130° | 81.3 | 91.1 | 131.1 | 201.6 | 233.2 |
| 132.5° | 84.0 | 93.7 | 130.5 | 193.5 | 222.0 |
| 135° | 88.0 | 96.9 | 129.5 | 182.3 | 206.7 |
| 137.5° | 92.1 | 100.9 | 129.3 | 173.9 | 193.9 |
| 140° | 95.5 | 103.6 | 128.7 | 167.3 | 185.9 |
| 142.5° | 98.1 | 105.6 | 128.7 | 162.6 | 178.6 |
| 145° | 102.1 | 108.6 | 127.8 | 155.5 | 167.7 |
| 147.5° | 106.1 | 112.4 | 127.8 | 149.6 | 159.7 |
| 150° | 108.7 | 114.4 | 127.8 | 146.3 | 154.4 |
| 152.5° | 111.4 | 115.8 | 127.8 | 143.6 | 149.7 |
| 155° | 115.4 | 118.6 | 127.8 | 140.4 | 144.4 |
| 157.5° | 118.4 | 121.4 | 127.8 | 137.5 | 140.4 |
| 160° | 120.4 | 122.8 | 127.8 | 136.2 | 137.8 |
| 162.5° | 122.3 | 124.1 | 127.8 | 134.8 | 136.5 |
| 165° | 124.5 | 126.1 | 127.8 | 132.8 | 134.5 |
| 167.5° | 126.5 | 127.3 | 128.7 | 132.0 | 132.6 |
| 170° | 127.8 | 128.6 | 128.7 | 132.0 | 132.0 |
| 172.5° | 128.5 | 128.7 | 128.7 | 131.3 | 130.6 |
| 175° | 129.5 | 129.5 | 128.7 | 130.3 | 130.3 |
| 177.5° | 129.5 | 129.5 | 128.8 | 130.1 | 129.5 |
| 180° | 129.5 | 129.5 | 129.5 | 129.5 | 129.5 |

(END OF REPORT)