

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: P563866

Luminaire Tested: **SQ4-PR1-025U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563866
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

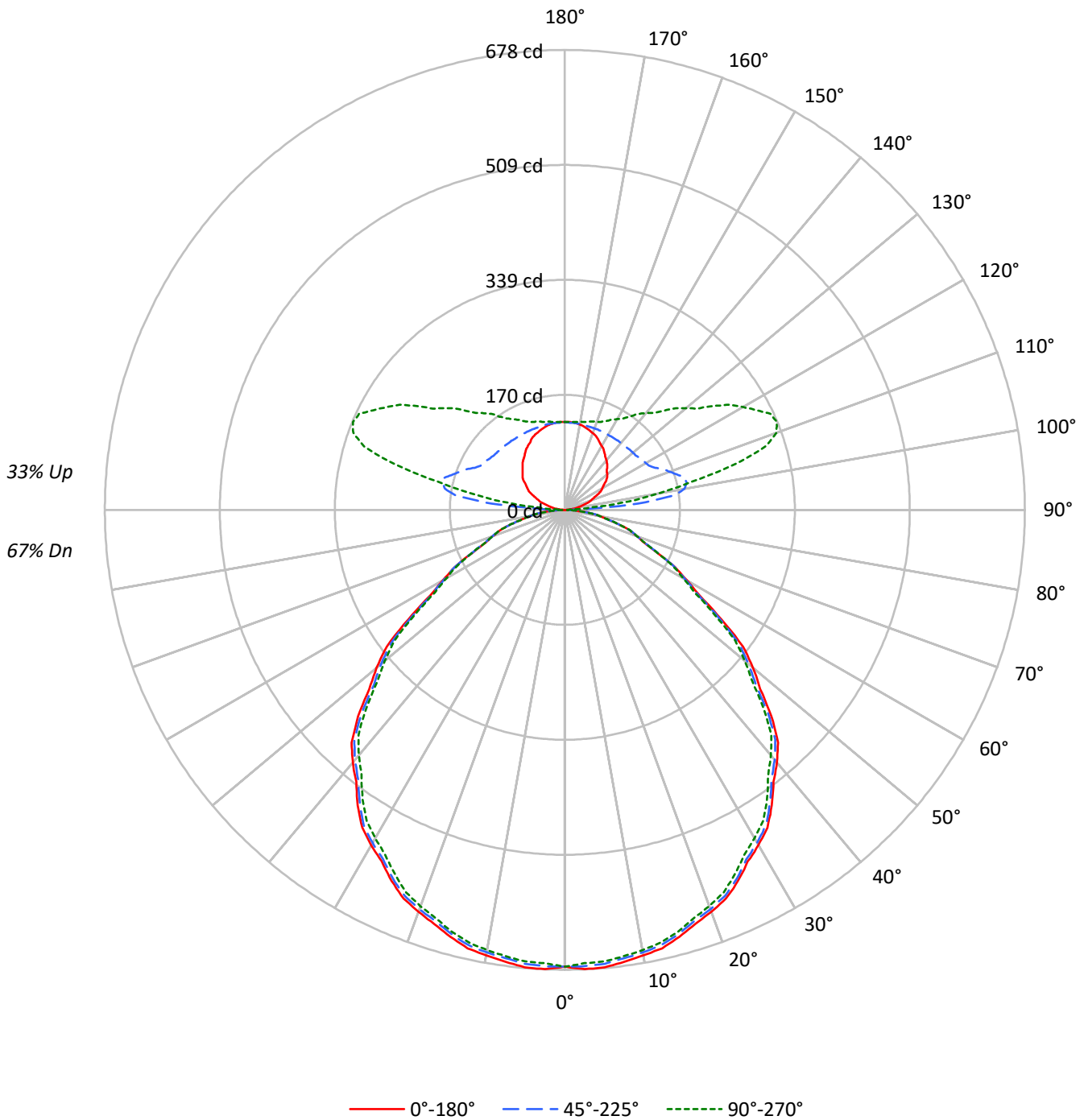
Lumens per Lamp: N/A
Luminaire Lumens: 2523.7 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 71 | 71 | 71 | 67 |
| 1 | 102 | 98 | 94 | 90 | 96 | 92 | 89 | 86 | 82 | 79 | 77 | 72 | 71 | 69 | 64 | 62 | 61 | 57 |
| 2 | 93 | 86 | 80 | 74 | 88 | 81 | 76 | 71 | 72 | 68 | 64 | 64 | 61 | 58 | 57 | 54 | 52 | 48 |
| 3 | 85 | 76 | 68 | 63 | 80 | 72 | 65 | 60 | 64 | 59 | 55 | 57 | 53 | 50 | 51 | 47 | 45 | 41 |
| 4 | 78 | 67 | 59 | 53 | 73 | 64 | 57 | 51 | 57 | 51 | 47 | 51 | 47 | 43 | 45 | 42 | 39 | 36 |
| 5 | 72 | 60 | 52 | 46 | 68 | 57 | 50 | 44 | 51 | 45 | 41 | 46 | 41 | 37 | 41 | 37 | 34 | 31 |
| 6 | 66 | 54 | 46 | 40 | 62 | 52 | 44 | 39 | 46 | 40 | 36 | 42 | 37 | 33 | 37 | 33 | 30 | 28 |
| 7 | 62 | 49 | 41 | 35 | 58 | 47 | 39 | 34 | 42 | 36 | 32 | 38 | 33 | 29 | 34 | 30 | 27 | 24 |
| 8 | 57 | 45 | 37 | 31 | 54 | 43 | 35 | 30 | 39 | 33 | 28 | 35 | 30 | 26 | 31 | 27 | 24 | 22 |
| 9 | 53 | 41 | 33 | 28 | 50 | 39 | 32 | 27 | 35 | 30 | 25 | 32 | 27 | 24 | 29 | 25 | 22 | 20 |
| 10 | 50 | 38 | 30 | 25 | 47 | 36 | 29 | 25 | 33 | 27 | 23 | 30 | 25 | 21 | 27 | 23 | 20 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6214 | 6214 | 6214 |
| 5° | 6270 | 6222 | 6189 |
| 10° | 6250 | 6207 | 6174 |
| 15° | 6223 | 6184 | 6150 |
| 20° | 6191 | 6151 | 6106 |
| 25° | 6148 | 6107 | 6036 |
| 30° | 6081 | 6038 | 5952 |
| 35° | 5992 | 5939 | 5855 |
| 40° | 5855 | 5792 | 5687 |
| 45° | 5617 | 5518 | 5404 |
| 50° | 5196 | 5071 | 4971 |
| 55° | 4534 | 4433 | 4340 |
| 60° | 3821 | 3790 | 3714 |
| 65° | 3305 | 3318 | 3292 |
| 70° | 3035 | 3051 | 3051 |
| 75° | 2916 | 2916 | 2937 |
| 80° | 2742 | 2773 | 2742 |
| 85° | 2212 | 2456 | 2456 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.7 | 2.5 |
| 10°-20° | 182.2 | 7.2 |
| 20°-30° | 274.9 | 10.9 |
| 30°-40° | 327.5 | 13.0 |
| 40°-50° | 322.9 | 12.8 |
| 50°-60° | 246.8 | 9.8 |
| 60°-70° | 152.7 | 6.1 |
| 70°-80° | 86.7 | 3.4 |
| 80°-90° | 27.1 | 1.1 |
| 90°-100° | 63.1 | 2.5 |
| 100°-110° | 165.9 | 6.6 |
| 110°-120° | 172.0 | 6.8 |
| 120°-130° | 138.0 | 5.5 |
| 130°-140° | 108.3 | 4.3 |
| 140°-150° | 83.1 | 3.3 |
| 150°-160° | 59.9 | 2.4 |
| 160°-170° | 36.6 | 1.5 |
| 170°-180° | 12.4 | 0.5 |
| 0°-30° | 520.8 | 20.6 |
| 0°-40° | 848.3 | 33.6 |
| 0°-60° | 1417.9 | 56.2 |
| 0°-90° | 1684.4 | 66.7 |
| 90°-120° | 401.1 | 15.9 |
| 90°-150° | 730.4 | 28.9 |
| 90°-180° | 839.0 | 33.2 |
| 0°-180° | 2523.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 674 | 674 | 674 | 674 | 674 | |
| 5° | 677 | 670 | 672 | 669 | 668 | 64 |
| 15° | 652 | 645 | 647 | 645 | 644 | 184 |
| 25° | 604 | 596 | 600 | 594 | 593 | 278 |
| 35° | 532 | 526 | 527 | 520 | 520 | 332 |
| 45° | 430 | 425 | 423 | 415 | 414 | 330 |
| 55° | 282 | 277 | 276 | 271 | 270 | 253 |
| 65° | 151 | 150 | 152 | 151 | 151 | 153 |
| 75° | 82 | 82 | 82 | 82 | 82 | 86 |
| 85° | 21 | 22 | 23 | 23 | 23 | 24 |
| 90° | 1 | 2 | 7 | 3 | 3 | 2 |
| 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: P563866

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 673.5 | 673.5 | 673.5 | 673.5 | 673.5 |
| 2.5° | 677.7 | 671.8 | 673.5 | 672.1 | 668.9 |
| 5° | 677.0 | 669.6 | 671.8 | 669.4 | 668.3 |
| 7.5° | 671.8 | 664.5 | 666.7 | 664.3 | 663.7 |
| 10° | 667.1 | 660.3 | 662.5 | 660.2 | 659.0 |
| 12.5° | 662.0 | 654.8 | 657.4 | 654.6 | 653.5 |
| 15° | 651.5 | 644.7 | 647.4 | 645.1 | 643.9 |
| 17.5° | 639.9 | 632.6 | 635.4 | 632.7 | 631.2 |
| 20° | 630.6 | 623.8 | 626.5 | 622.5 | 621.9 |
| 22.5° | 620.4 | 613.6 | 616.3 | 610.9 | 610.8 |
| 25° | 603.9 | 596.5 | 599.9 | 593.5 | 592.9 |
| 27.5° | 584.3 | 577.5 | 580.2 | 573.7 | 573.1 |
| 30° | 570.8 | 564.0 | 566.8 | 559.8 | 558.7 |
| 32.5° | 555.5 | 549.2 | 551.5 | 544.5 | 543.8 |
| 35° | 532.0 | 525.7 | 527.3 | 520.4 | 519.8 |
| 37.5° | 505.2 | 499.5 | 500.4 | 492.7 | 492.2 |
| 40° | 486.1 | 480.5 | 480.9 | 472.8 | 472.2 |
| 42.5° | 465.3 | 459.6 | 459.1 | 451.0 | 450.4 |
| 45° | 430.5 | 424.8 | 422.9 | 415.3 | 414.2 |
| 47.5° | 390.8 | 385.1 | 381.6 | 375.4 | 374.6 |
| 50° | 362.0 | 356.3 | 353.3 | 348.0 | 346.3 |
| 52.5° | 330.9 | 325.2 | 322.7 | 317.9 | 316.2 |
| 55° | 281.9 | 277.4 | 275.6 | 270.9 | 269.8 |
| 57.5° | 235.4 | 232.4 | 231.8 | 227.3 | 226.8 |
| 60° | 207.1 | 205.4 | 205.4 | 201.3 | 201.3 |
| 62.5° | 183.0 | 181.7 | 182.6 | 179.9 | 179.5 |
| 65° | 151.4 | 150.3 | 152.0 | 150.8 | 150.8 |
| 67.5° | 126.5 | 126.5 | 127.5 | 127.0 | 127.0 |
| 70° | 112.5 | 112.5 | 113.1 | 113.1 | 113.1 |
| 72.5° | 100.0 | 99.6 | 101.1 | 101.0 | 100.6 |
| 75° | 81.8 | 81.8 | 81.8 | 82.4 | 82.4 |
| 77.5° | 63.7 | 63.8 | 64.3 | 64.2 | 63.7 |
| 80° | 51.6 | 52.2 | 52.2 | 51.6 | 51.6 |
| 82.5° | 39.6 | 40.1 | 40.1 | 40.0 | 39.6 |
| 85° | 20.9 | 22.0 | 23.2 | 23.2 | 23.2 |
| 87.5° | 6.2 | 8.3 | 10.6 | 9.9 | 9.5 |
| 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 |

TEST NUMBER: P563866

CATALOG NUMBER: SQ4-PR1-025U-050D-935-1D-UNV-STD-W-4

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)