

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: P562934

Luminaire Tested: **SQ4-PC3-100U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562934
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

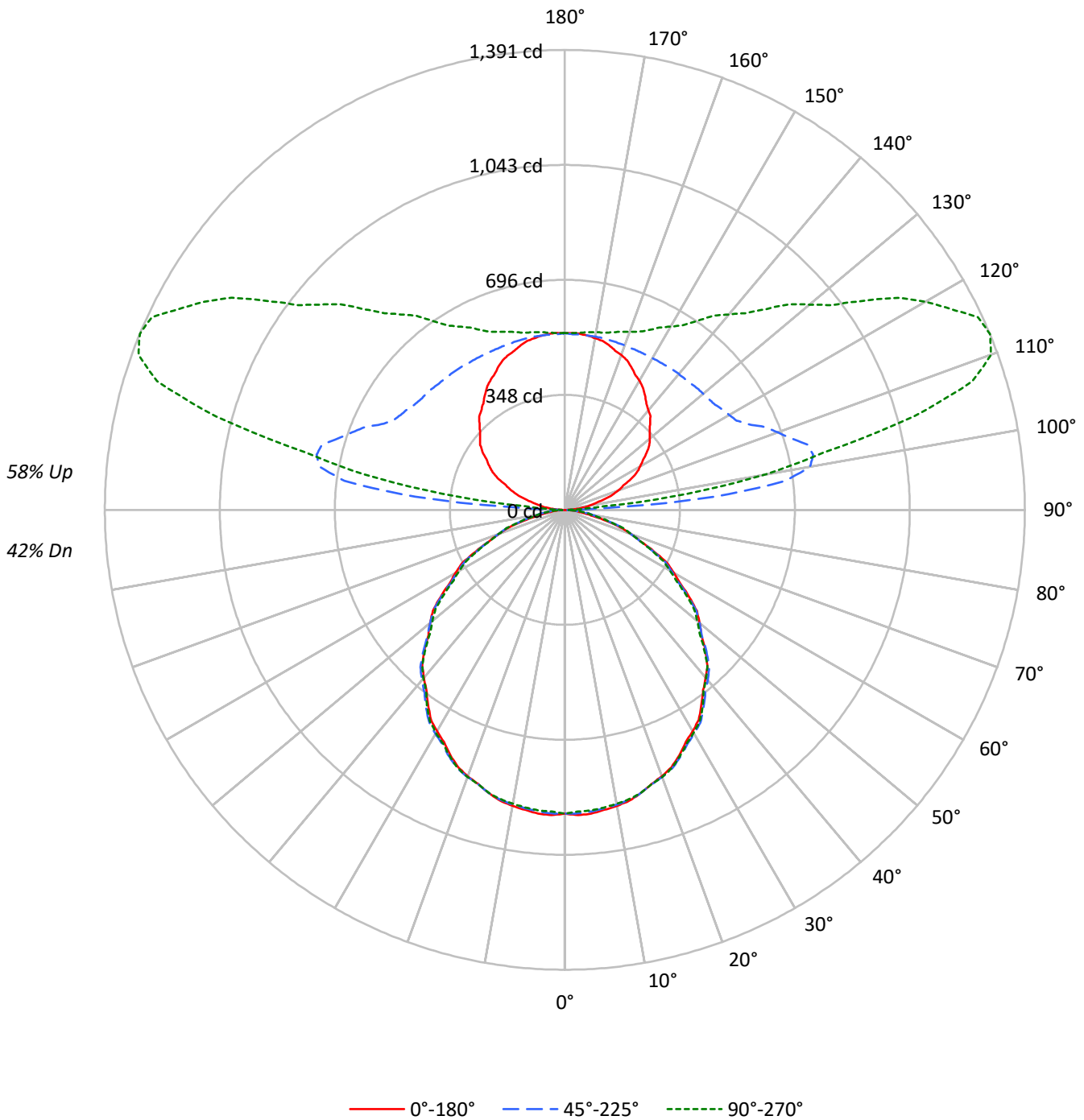
Lumens per Lamp: N/A
Luminaire Lumens: 5980.6 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.1
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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 63 | 63 | 63 | 49 | 49 | 49 | 42 | | | | |
| 1 | 96 | 92 | 88 | 85 | 87 | 84 | 81 | 78 | 69 | 67 | 65 | 56 | 54 | 53 | 43 | 42 | 41 | 35 | | | | |
| 2 | 87 | 80 | 74 | 69 | 80 | 73 | 68 | 64 | 61 | 57 | 54 | 49 | 46 | 44 | 38 | 36 | 35 | 30 | | | | |
| 3 | 80 | 70 | 63 | 57 | 72 | 64 | 58 | 53 | 53 | 49 | 45 | 43 | 40 | 37 | 34 | 31 | 30 | 25 | | | | |
| 4 | 73 | 62 | 54 | 48 | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 35 | 32 | 30 | 27 | 25 | 22 | | | | |
| 5 | 67 | 55 | 47 | 41 | 61 | 51 | 44 | 39 | 42 | 37 | 33 | 34 | 30 | 27 | 27 | 24 | 22 | 19 | | | | |
| 6 | 61 | 50 | 42 | 36 | 56 | 46 | 39 | 33 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 22 | 19 | 16 | | | | |
| 7 | 57 | 45 | 37 | 31 | 52 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 | 14 | | | | |
| 8 | 53 | 40 | 33 | 28 | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 20 | 18 | 15 | 13 | | | | |
| 9 | 49 | 37 | 29 | 24 | 45 | 34 | 27 | 23 | 29 | 23 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 12 | | | | |
| 10 | 46 | 34 | 27 | 22 | 42 | 31 | 25 | 20 | 26 | 21 | 18 | 22 | 18 | 15 | 17 | 15 | 13 | 11 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8477 | 8477 | 8477 |
| 5° | 8541 | 8485 | 8454 |
| 10° | 8520 | 8479 | 8456 |
| 15° | 8475 | 8475 | 8467 |
| 20° | 8419 | 8445 | 8445 |
| 25° | 8339 | 8401 | 8374 |
| 30° | 8238 | 8337 | 8301 |
| 35° | 8115 | 8240 | 8183 |
| 40° | 7982 | 8095 | 8012 |
| 45° | 7837 | 7891 | 7770 |
| 50° | 7632 | 7632 | 7510 |
| 55° | 7390 | 7293 | 7184 |
| 60° | 7032 | 6892 | 6781 |
| 65° | 6499 | 6370 | 6314 |
| 70° | 5692 | 5738 | 5713 |
| 75° | 4581 | 5065 | 5094 |
| 80° | 3257 | 4293 | 4341 |
| 85° | 1980 | 3599 | 3599 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.0 | 1.5 |
| 10°-20° | 249.5 | 4.2 |
| 20°-30° | 377.9 | 6.3 |
| 30°-40° | 453.0 | 7.6 |
| 40°-50° | 461.9 | 7.7 |
| 50°-60° | 403.2 | 6.7 |
| 60°-70° | 288.7 | 4.8 |
| 70°-80° | 148.7 | 2.5 |
| 80°-90° | 38.7 | 0.6 |
| 90°-100° | 250.2 | 4.2 |
| 100°-110° | 690.9 | 11.6 |
| 110°-120° | 712.5 | 11.9 |
| 120°-130° | 572.6 | 9.6 |
| 130°-140° | 450.0 | 7.5 |
| 140°-150° | 345.1 | 5.8 |
| 150°-160° | 248.0 | 4.1 |
| 160°-170° | 151.7 | 2.5 |
| 170°-180° | 51.1 | 0.9 |
| 0°-30° | 714.3 | 11.9 |
| 0°-40° | 1167.3 | 19.5 |
| 0°-60° | 2032.5 | 34.0 |
| 0°-90° | 2508.6 | 41.9 |
| 90°-120° | 1653.6 | 27.6 |
| 90°-150° | 3021.2 | 50.5 |
| 90°-180° | 3472.0 | 58.1 |
| 0°-180° | 5980.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 919 | 919 | 919 | 919 | 919 | |
| 5° | 922 | 913 | 916 | 914 | 913 | 88 |
| 15° | 887 | 880 | 887 | 887 | 886 | 250 |
| 25° | 819 | 813 | 825 | 823 | 823 | 377 |
| 35° | 720 | 719 | 732 | 726 | 726 | 451 |
| 45° | 601 | 599 | 605 | 597 | 596 | 462 |
| 55° | 459 | 454 | 453 | 447 | 447 | 410 |
| 65° | 298 | 291 | 292 | 289 | 289 | 294 |
| 75° | 128 | 134 | 142 | 143 | 143 | 139 |
| 85° | 19 | 29 | 34 | 35 | 34 | 25 |
| 90° | 2 | 3 | 7 | 8 | 8 | 3 |
| 95° | 37 | 135 | 454 | 187 | 121 | 39 |
| 105° | 123 | 190 | 760 | 1160 | 1093 | 131 |
| 115° | 221 | 267 | 612 | 1212 | 1378 | 217 |
| 125° | 303 | 344 | 555 | 939 | 1102 | 269 |
| 135° | 364 | 404 | 540 | 761 | 858 | 282 |
| 145° | 422 | 452 | 533 | 648 | 697 | 264 |
| 155° | 476 | 492 | 528 | 581 | 599 | 219 |
| 165° | 516 | 522 | 531 | 552 | 556 | 145 |
| 175° | 534 | 535 | 532 | 540 | 538 | 51 |
| 180° | 534 | 534 | 534 | 534 | 534 | |

TEST NUMBER: P562934

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 0° | 918.8 | 918.8 | 918.8 | 918.8 | 918.8 |
| 2.5° | 924.2 | 916.2 | 918.8 | 916.6 | 913.3 |
| 5° | 922.2 | 913.0 | 916.2 | 913.6 | 912.8 |
| 7.5° | 915.5 | 906.4 | 910.6 | 908.9 | 908.0 |
| 10° | 909.4 | 900.3 | 905.1 | 903.4 | 902.6 |
| 12.5° | 901.2 | 892.8 | 898.3 | 896.6 | 896.5 |
| 15° | 887.3 | 879.8 | 887.3 | 887.3 | 886.4 |
| 17.5° | 869.8 | 862.9 | 870.9 | 871.4 | 870.9 |
| 20° | 857.5 | 850.0 | 860.1 | 859.2 | 860.1 |
| 22.5° | 842.5 | 836.4 | 847.1 | 844.9 | 845.8 |
| 25° | 819.2 | 813.4 | 825.2 | 822.6 | 822.6 |
| 27.5° | 791.7 | 787.5 | 800.3 | 797.6 | 797.6 |
| 30° | 773.3 | 769.1 | 782.6 | 779.2 | 779.2 |
| 32.5° | 752.9 | 750.0 | 762.9 | 758.8 | 758.8 |
| 35° | 720.5 | 718.9 | 731.6 | 726.5 | 726.5 |
| 37.5° | 687.2 | 685.7 | 697.2 | 691.1 | 689.1 |
| 40° | 662.7 | 661.9 | 672.1 | 665.2 | 665.2 |
| 42.5° | 638.2 | 637.4 | 646.2 | 638.0 | 638.0 |
| 45° | 600.6 | 598.9 | 604.8 | 597.2 | 595.5 |
| 47.5° | 559.6 | 557.9 | 561.6 | 553.3 | 552.4 |
| 50° | 531.7 | 530.0 | 531.7 | 524.0 | 523.2 |
| 52.5° | 503.1 | 500.1 | 500.4 | 492.7 | 492.6 |
| 55° | 459.4 | 453.6 | 453.4 | 446.6 | 446.6 |
| 57.5° | 413.1 | 405.4 | 406.1 | 400.3 | 399.5 |
| 60° | 381.1 | 372.8 | 373.5 | 368.3 | 367.5 |
| 62.5° | 349.8 | 340.2 | 342.2 | 336.4 | 336.2 |
| 65° | 297.7 | 291.1 | 291.8 | 289.2 | 289.2 |
| 67.5° | 247.7 | 241.6 | 246.0 | 244.0 | 243.8 |
| 70° | 211.0 | 206.8 | 212.7 | 212.7 | 211.8 |
| 72.5° | 176.9 | 176.8 | 184.1 | 184.1 | 184.6 |
| 75° | 128.5 | 134.3 | 142.1 | 142.9 | 142.9 |
| 77.5° | 85.8 | 96.1 | 104.6 | 105.0 | 104.8 |
| 80° | 61.3 | 72.9 | 80.8 | 82.5 | 81.7 |
| 82.5° | 41.5 | 53.8 | 60.4 | 62.1 | 61.3 |
| 85° | 18.7 | 28.7 | 34.0 | 34.9 | 34.0 |
| 87.5° | 5.8 | 12.1 | 15.0 | 15.1 | 14.0 |
| 90° | 1.7 | 3.4 | 6.8 | 7.7 | 8.5 |
| 92.5° | 15.4 | 63.9 | 114.2 | 41.7 | 32.5 |
| 95° | 36.8 | 135.4 | 454.0 | 186.6 | 121.4 |
| 97.5° | 60.9 | 151.7 | 672.5 | 517.8 | 375.0 |
| 100° | 78.7 | 161.4 | 753.2 | 758.6 | 616.4 |
| 102.5° | 95.8 | 172.5 | 769.0 | 937.3 | 802.5 |
| 105° | 123.1 | 190.0 | 760.1 | 1160.4 | 1092.7 |
| 107.5° | 152.2 | 211.7 | 717.7 | 1268.0 | 1292.7 |
| 110° | 172.7 | 226.2 | 684.8 | 1291.1 | 1371.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 191.2 | 242.7 | 654.1 | 1272.9 | 1391.2 |
| 115° | 220.6 | 266.6 | 612.2 | 1211.9 | 1378.2 |
| 117.5° | 246.2 | 292.0 | 584.6 | 1126.0 | 1315.3 |
| 120° | 263.3 | 308.5 | 573.7 | 1067.9 | 1258.5 |
| 122.5° | 279.8 | 322.9 | 564.8 | 1013.7 | 1194.2 |
| 125° | 302.7 | 344.5 | 554.9 | 939.1 | 1102.1 |
| 127.5° | 322.2 | 364.0 | 549.1 | 876.0 | 1016.6 |
| 130° | 335.2 | 377.0 | 546.3 | 837.4 | 965.3 |
| 132.5° | 347.5 | 387.3 | 543.6 | 805.0 | 920.8 |
| 135° | 364.2 | 403.5 | 539.5 | 760.6 | 857.6 |
| 137.5° | 383.0 | 418.8 | 537.4 | 723.3 | 806.1 |
| 140° | 393.3 | 428.4 | 536.1 | 698.5 | 771.2 |
| 142.5° | 404.9 | 437.4 | 534.7 | 676.4 | 740.4 |
| 145° | 422.4 | 451.6 | 532.7 | 647.5 | 696.8 |
| 147.5° | 439.1 | 464.7 | 530.8 | 623.1 | 661.4 |
| 150° | 451.4 | 472.3 | 530.1 | 608.6 | 639.5 |
| 152.5° | 461.0 | 480.6 | 529.4 | 596.2 | 621.7 |
| 155° | 476.2 | 492.1 | 528.4 | 581.0 | 599.3 |
| 157.5° | 490.2 | 502.5 | 528.6 | 569.9 | 582.4 |
| 160° | 498.5 | 509.3 | 529.2 | 563.6 | 572.8 |
| 162.5° | 505.3 | 514.8 | 529.9 | 558.1 | 565.3 |
| 165° | 515.6 | 522.2 | 530.9 | 551.6 | 555.7 |
| 167.5° | 523.4 | 527.4 | 531.8 | 547.6 | 548.9 |
| 170° | 527.5 | 530.9 | 531.8 | 545.5 | 545.5 |
| 172.5° | 530.9 | 533.0 | 531.8 | 542.7 | 542.1 |
| 175° | 534.4 | 535.2 | 531.8 | 539.5 | 537.8 |
| 177.5° | 535.7 | 535.1 | 531.6 | 536.4 | 535.0 |
| 180° | 534.4 | 534.4 | 534.4 | 534.4 | 534.4 |

(END OF REPORT)