

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: P562619

Luminaire Tested: **SQ4-PC3-050U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562619
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

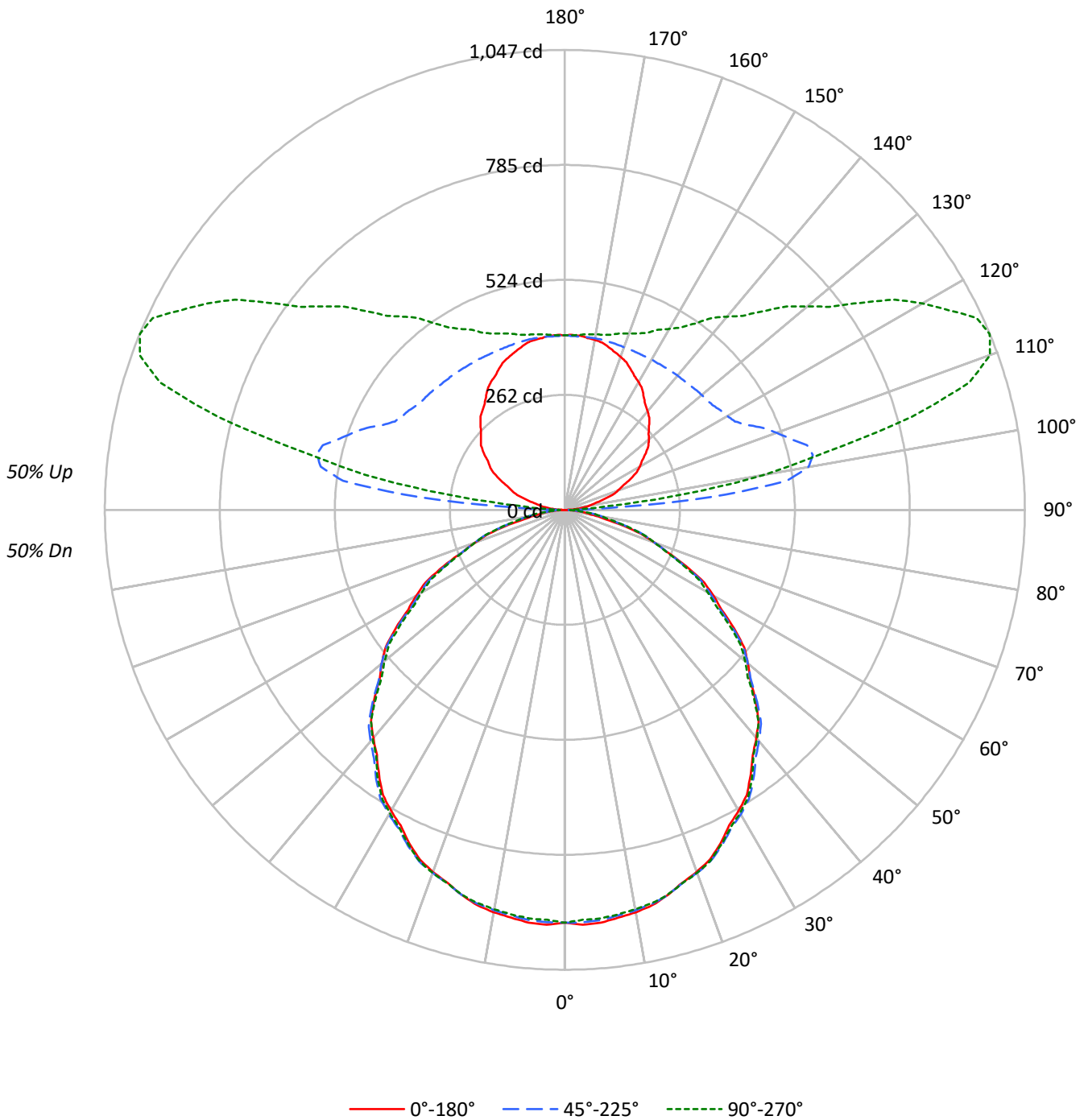
Lumens per Lamp: N/A
Luminaire Lumens: 5162.6 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.8
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



TEST NUMBER: P562619
CATALOG NUMBER: SQ4-PC3-050U-050D-935-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P562619

CATALOG NUMBER: SQ4-PC3-050U-050D-935-1D-UNV-STD-W-6

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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 98 | 93 | 90 | 86 | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 61 | 59 | 58 | 49 | 48 | 47 | 42 |
| 2 | 89 | 82 | 76 | 70 | 82 | 75 | 70 | 66 | 64 | 60 | 57 | 53 | 51 | 48 | 44 | 42 | 40 | 35 |
| 3 | 81 | 72 | 64 | 59 | 75 | 66 | 60 | 55 | 56 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 | 30 |
| 4 | 74 | 63 | 56 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 41 | 42 | 38 | 35 | 34 | 32 | 29 | 25 |
| 5 | 68 | 56 | 48 | 42 | 63 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6 | 63 | 51 | 42 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 26 | 22 | 20 | 17 |
| 8 | 54 | 41 | 34 | 28 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 22 | 18 | 16 | 14 |
| 10 | 47 | 35 | 27 | 23 | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5781 | 5781 | 5781 |
| 5° | 5824 | 5787 | 5765 |
| 10° | 5810 | 5783 | 5767 |
| 15° | 5779 | 5779 | 5774 |
| 20° | 5742 | 5759 | 5759 |
| 25° | 5687 | 5729 | 5711 |
| 30° | 5618 | 5686 | 5661 |
| 35° | 5535 | 5620 | 5580 |
| 40° | 5443 | 5520 | 5464 |
| 45° | 5344 | 5382 | 5298 |
| 50° | 5205 | 5205 | 5121 |
| 55° | 5039 | 4974 | 4900 |
| 60° | 4795 | 4699 | 4624 |
| 65° | 4433 | 4344 | 4307 |
| 70° | 3881 | 3911 | 3897 |
| 75° | 3123 | 3453 | 3474 |
| 80° | 2221 | 2929 | 2958 |
| 85° | 1348 | 2456 | 2456 |



TEST NUMBER: P562619

CATALOG NUMBER: SQ4-PC3-050U-050D-935-1D-UNV-STD-W-6

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.9 | 1.7 |
| 10°-20° | 255.2 | 4.9 |
| 20°-30° | 386.5 | 7.5 |
| 30°-40° | 463.4 | 9.0 |
| 40°-50° | 472.5 | 9.2 |
| 50°-60° | 412.5 | 8.0 |
| 60°-70° | 295.3 | 5.7 |
| 70°-80° | 152.1 | 2.9 |
| 80°-90° | 40.0 | 0.8 |
| 90°-100° | 190.9 | 3.7 |
| 100°-110° | 518.5 | 10.0 |
| 110°-120° | 533.1 | 10.3 |
| 120°-130° | 426.2 | 8.3 |
| 130°-140° | 334.9 | 6.5 |
| 140°-150° | 256.8 | 5.0 |
| 150°-160° | 184.7 | 3.6 |
| 160°-170° | 112.9 | 2.2 |
| 170°-180° | 38.1 | 0.7 |
| 0°-30° | 730.7 | 14.2 |
| 0°-40° | 1194.1 | 23.1 |
| 0°-60° | 2079.1 | 40.3 |
| 0°-90° | 2566.5 | 49.7 |
| 90°-120° | 1242.5 | 24.1 |
| 90°-150° | 2260.4 | 43.8 |
| 90°-180° | 2596.0 | 50.3 |
| 0°-180° | 5162.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 940 | 940 | 940 | 940 | 940 | |
| 5° | 943 | 934 | 937 | 935 | 934 | 90 |
| 15° | 908 | 900 | 908 | 908 | 907 | 256 |
| 25° | 838 | 832 | 844 | 842 | 842 | 386 |
| 35° | 737 | 735 | 748 | 743 | 743 | 461 |
| 45° | 614 | 613 | 619 | 611 | 609 | 473 |
| 55° | 470 | 464 | 464 | 457 | 457 | 419 |
| 65° | 305 | 298 | 298 | 296 | 296 | 301 |
| 75° | 131 | 137 | 145 | 146 | 146 | 142 |
| 85° | 19 | 29 | 35 | 36 | 35 | 26 |
| 90° | 1 | 5 | 9 | 12 | 12 | 3 |
| 95° | 28 | 104 | 332 | 145 | 97 | 30 |
| 105° | 92 | 143 | 570 | 868 | 817 | 98 |
| 115° | 164 | 199 | 456 | 908 | 1034 | 161 |
| 125° | 225 | 256 | 413 | 696 | 821 | 201 |
| 135° | 271 | 301 | 402 | 567 | 639 | 210 |
| 145° | 313 | 336 | 396 | 482 | 518 | 197 |
| 155° | 354 | 367 | 394 | 432 | 445 | 163 |
| 165° | 384 | 389 | 395 | 412 | 413 | 108 |
| 175° | 398 | 399 | 396 | 401 | 400 | 38 |
| 180° | 398 | 398 | 398 | 398 | 398 | |

TEST NUMBER: P562619

CATALOG NUMBER: SQ4-PC3-050U-050D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|--------|
| 0° | 939.8 | 939.8 | 939.8 | 939.8 | 939.8 |
| 2.5° | 945.4 | 937.2 | 939.8 | 937.6 | 934.2 |
| 5° | 943.3 | 933.9 | 937.2 | 934.6 | 933.7 |
| 7.5° | 936.5 | 927.1 | 931.5 | 929.7 | 928.8 |
| 10° | 930.2 | 920.9 | 925.9 | 924.1 | 923.3 |
| 12.5° | 921.9 | 913.2 | 918.9 | 917.2 | 917.0 |
| 15° | 907.6 | 900.0 | 907.6 | 907.6 | 906.7 |
| 17.5° | 889.7 | 882.7 | 890.9 | 891.4 | 890.9 |
| 20° | 877.2 | 869.5 | 879.8 | 878.9 | 879.8 |
| 22.5° | 861.8 | 855.5 | 866.5 | 864.3 | 865.1 |
| 25° | 838.0 | 832.0 | 844.1 | 841.5 | 841.5 |
| 27.5° | 809.8 | 805.5 | 818.7 | 815.9 | 815.9 |
| 30° | 791.0 | 786.8 | 800.6 | 797.1 | 797.1 |
| 32.5° | 770.1 | 767.2 | 780.4 | 776.2 | 776.2 |
| 35° | 737.1 | 735.4 | 748.4 | 743.1 | 743.1 |
| 37.5° | 702.9 | 701.4 | 713.2 | 706.9 | 704.9 |
| 40° | 677.9 | 677.0 | 687.5 | 680.5 | 680.5 |
| 42.5° | 652.8 | 652.0 | 661.0 | 652.6 | 652.6 |
| 45° | 614.4 | 612.7 | 618.7 | 610.8 | 609.1 |
| 47.5° | 572.4 | 570.7 | 574.5 | 566.0 | 565.1 |
| 50° | 543.9 | 542.2 | 543.9 | 536.0 | 535.2 |
| 52.5° | 514.6 | 511.6 | 511.8 | 504.0 | 503.8 |
| 55° | 469.9 | 463.9 | 463.8 | 456.9 | 456.9 |
| 57.5° | 422.6 | 414.7 | 415.4 | 409.5 | 408.6 |
| 60° | 389.8 | 381.3 | 382.0 | 376.8 | 375.9 |
| 62.5° | 357.8 | 348.0 | 350.0 | 344.1 | 343.9 |
| 65° | 304.6 | 297.8 | 298.5 | 295.9 | 295.9 |
| 67.5° | 253.4 | 247.1 | 251.7 | 249.6 | 249.4 |
| 70° | 215.8 | 211.6 | 217.5 | 217.5 | 216.7 |
| 72.5° | 181.0 | 180.8 | 188.3 | 188.3 | 188.8 |
| 75° | 131.4 | 137.4 | 145.3 | 146.2 | 146.2 |
| 77.5° | 87.7 | 98.3 | 107.0 | 107.4 | 107.2 |
| 80° | 62.7 | 74.6 | 82.7 | 84.4 | 83.5 |
| 82.5° | 42.5 | 55.1 | 61.8 | 63.5 | 62.7 |
| 85° | 19.1 | 29.4 | 34.8 | 35.7 | 34.8 |
| 87.5° | 5.8 | 12.7 | 15.7 | 16.2 | 14.8 |
| 90° | 1.3 | 5.0 | 8.9 | 11.5 | 11.5 |
| 92.5° | 11.5 | 52.3 | 90.8 | 39.0 | 33.0 |
| 95° | 28.1 | 104.4 | 332.4 | 144.7 | 97.2 |
| 97.5° | 46.5 | 115.3 | 509.6 | 396.5 | 278.5 |
| 100° | 58.8 | 122.6 | 563.8 | 571.5 | 461.5 |
| 102.5° | 71.1 | 129.8 | 578.1 | 706.9 | 609.8 |
| 105° | 92.1 | 143.3 | 570.2 | 868.2 | 817.0 |
| 107.5° | 113.8 | 159.0 | 537.2 | 951.5 | 965.8 |
| 110° | 129.1 | 170.4 | 512.7 | 967.9 | 1029.2 |



TEST NUMBER: P562619

CATALOG NUMBER: SQ4-PC3-050U-050D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|--------|
| 112.5° | 142.4 | 181.7 | 488.1 | 954.3 | 1046.6 |
| 115° | 163.6 | 198.7 | 456.4 | 908.1 | 1034.3 |
| 117.5° | 183.6 | 217.1 | 436.2 | 842.4 | 984.7 |
| 120° | 196.9 | 229.4 | 427.0 | 798.4 | 939.7 |
| 122.5° | 208.1 | 240.6 | 420.9 | 754.3 | 890.6 |
| 125° | 225.0 | 256.3 | 413.0 | 695.8 | 820.8 |
| 127.5° | 240.1 | 271.1 | 408.6 | 651.4 | 758.7 |
| 130° | 249.3 | 279.3 | 406.6 | 623.5 | 719.8 |
| 132.5° | 258.5 | 288.5 | 404.5 | 599.8 | 685.0 |
| 135° | 271.0 | 301.0 | 401.5 | 566.7 | 639.3 |
| 137.5° | 284.6 | 311.8 | 399.9 | 537.6 | 598.6 |
| 140° | 292.8 | 319.0 | 398.9 | 519.0 | 574.0 |
| 142.5° | 301.0 | 325.2 | 397.9 | 504.5 | 550.5 |
| 145° | 313.2 | 335.7 | 396.3 | 481.5 | 517.8 |
| 147.5° | 327.0 | 346.3 | 395.1 | 463.5 | 492.0 |
| 150° | 336.2 | 352.5 | 395.1 | 453.1 | 475.6 |
| 152.5° | 343.4 | 357.7 | 394.0 | 443.8 | 462.3 |
| 155° | 354.1 | 366.6 | 393.8 | 432.4 | 444.9 |
| 157.5° | 364.6 | 374.4 | 393.8 | 424.7 | 434.2 |
| 160° | 370.8 | 379.5 | 393.8 | 419.5 | 427.0 |
| 162.5° | 376.9 | 383.7 | 394.8 | 415.4 | 420.9 |
| 165° | 383.6 | 388.6 | 395.1 | 411.7 | 413.0 |
| 167.5° | 390.5 | 393.0 | 396.3 | 407.4 | 408.4 |
| 170° | 392.5 | 395.0 | 396.3 | 405.3 | 405.3 |
| 172.5° | 394.5 | 396.0 | 396.3 | 403.2 | 403.2 |
| 175° | 397.6 | 398.9 | 396.3 | 401.4 | 400.2 |
| 177.5° | 398.6 | 398.6 | 395.6 | 399.6 | 397.6 |
| 180° | 397.6 | 397.6 | 397.6 | 397.6 | 397.6 |

(END OF REPORT)