

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: P562534

Luminaire Tested: **SQ4-PC3-025U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562534
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

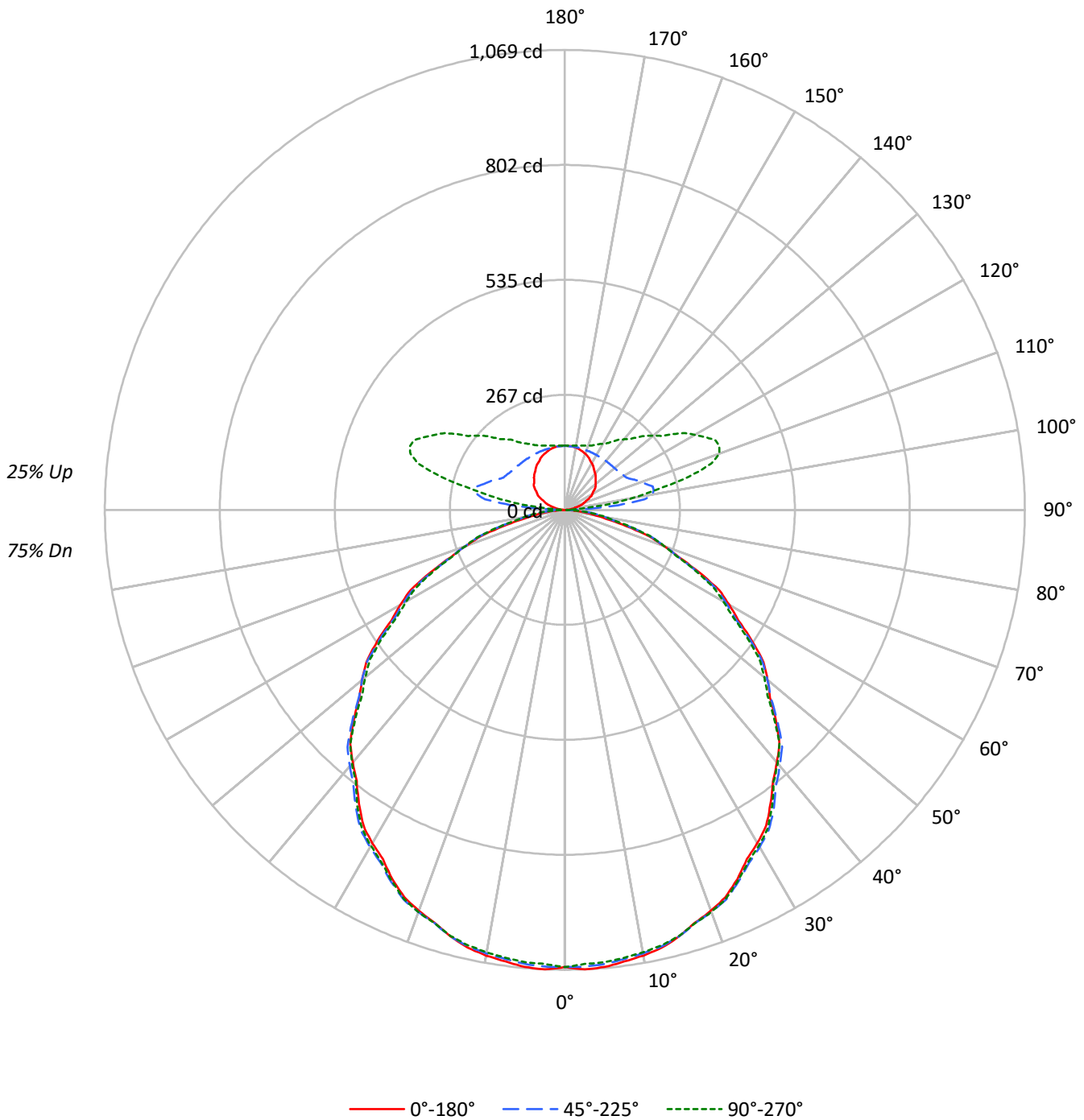
Lumens per Lamp: N/A
Luminaire Lumens: 3867.2 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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 | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 97 | 97 | 97 | 88 | 88 | 88 | 79 | 79 | 79 | 75 |
| 1 | 103 | 99 | 95 | 91 | 98 | 94 | 91 | 88 | 86 | 83 | 80 | 78 | 75 | 73 | 70 | 69 | 67 | 63 |
| 2 | 94 | 87 | 80 | 75 | 89 | 83 | 77 | 72 | 75 | 71 | 67 | 68 | 65 | 61 | 62 | 59 | 57 | 53 |
| 3 | 86 | 76 | 68 | 62 | 81 | 73 | 66 | 60 | 66 | 61 | 56 | 60 | 56 | 52 | 55 | 51 | 48 | 45 |
| 4 | 79 | 67 | 59 | 53 | 75 | 64 | 57 | 51 | 59 | 53 | 48 | 54 | 49 | 45 | 49 | 45 | 41 | 38 |
| 5 | 72 | 60 | 52 | 45 | 69 | 58 | 50 | 44 | 53 | 46 | 41 | 48 | 43 | 39 | 44 | 40 | 36 | 33 |
| 6 | 67 | 54 | 46 | 39 | 63 | 52 | 44 | 38 | 48 | 41 | 36 | 44 | 38 | 34 | 40 | 35 | 32 | 29 |
| 7 | 62 | 49 | 41 | 35 | 59 | 47 | 39 | 34 | 43 | 37 | 32 | 40 | 34 | 30 | 36 | 32 | 28 | 26 |
| 8 | 57 | 45 | 36 | 31 | 55 | 43 | 35 | 30 | 39 | 33 | 28 | 36 | 31 | 27 | 33 | 29 | 25 | 23 |
| 9 | 54 | 41 | 33 | 28 | 51 | 39 | 32 | 27 | 36 | 30 | 26 | 33 | 28 | 24 | 31 | 26 | 23 | 21 |
| 10 | 50 | 38 | 30 | 25 | 48 | 36 | 29 | 24 | 33 | 27 | 23 | 31 | 26 | 22 | 29 | 24 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9806 | 9806 | 9806 |
| 5° | 9879 | 9815 | 9779 |
| 10° | 9856 | 9809 | 9782 |
| 15° | 9804 | 9804 | 9794 |
| 20° | 9739 | 9768 | 9768 |
| 25° | 9648 | 9717 | 9687 |
| 30° | 9530 | 9645 | 9603 |
| 35° | 9388 | 9532 | 9466 |
| 40° | 9233 | 9363 | 9268 |
| 45° | 9064 | 9130 | 8987 |
| 50° | 8827 | 8827 | 8687 |
| 55° | 8548 | 8437 | 8310 |
| 60° | 8136 | 7971 | 7844 |
| 65° | 7519 | 7368 | 7305 |
| 70° | 6582 | 6636 | 6609 |
| 75° | 5297 | 5857 | 5893 |
| 80° | 3767 | 4968 | 5021 |
| 85° | 2287 | 4171 | 4171 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.6 | 2.6 |
| 10°-20° | 288.6 | 7.5 |
| 20°-30° | 437.1 | 11.3 |
| 30°-40° | 524.0 | 13.6 |
| 40°-50° | 534.3 | 13.8 |
| 50°-60° | 466.4 | 12.1 |
| 60°-70° | 333.9 | 8.6 |
| 70°-80° | 172.0 | 4.4 |
| 80°-90° | 44.3 | 1.1 |
| 90°-100° | 72.6 | 1.9 |
| 100°-110° | 190.9 | 4.9 |
| 110°-120° | 198.0 | 5.1 |
| 120°-130° | 158.8 | 4.1 |
| 130°-140° | 124.6 | 3.2 |
| 140°-150° | 95.6 | 2.5 |
| 150°-160° | 68.9 | 1.8 |
| 160°-170° | 42.1 | 1.1 |
| 170°-180° | 14.2 | 0.4 |
| 0°-30° | 826.3 | 21.4 |
| 0°-40° | 1350.4 | 34.9 |
| 0°-60° | 2351.1 | 60.8 |
| 0°-90° | 2901.3 | 75.0 |
| 90°-120° | 461.6 | 11.9 |
| 90°-150° | 840.6 | 21.7 |
| 90°-180° | 966.0 | 25.0 |
| 0°-180° | 3867.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1063 | 1063 | 1063 | 1063 | 1063 | |
| 5° | 1067 | 1056 | 1060 | 1057 | 1056 | 101 |
| 15° | 1026 | 1018 | 1026 | 1026 | 1025 | 289 |
| 25° | 948 | 941 | 954 | 952 | 952 | 436 |
| 35° | 834 | 832 | 846 | 840 | 840 | 521 |
| 45° | 695 | 693 | 700 | 691 | 689 | 535 |
| 55° | 531 | 525 | 524 | 517 | 517 | 474 |
| 65° | 344 | 337 | 338 | 335 | 335 | 341 |
| 75° | 149 | 155 | 164 | 165 | 165 | 161 |
| 85° | 22 | 33 | 39 | 40 | 39 | 29 |
| 90° | 1 | 3 | 8 | 4 | 4 | 2 |
| 95° | 10 | 38 | 125 | 64 | 44 | 11 |
| 105° | 34 | 52 | 211 | 320 | 299 | 36 |
| 115° | 61 | 74 | 169 | 337 | 385 | 60 |
| 125° | 85 | 95 | 154 | 260 | 307 | 75 |
| 135° | 101 | 112 | 149 | 210 | 238 | 78 |
| 145° | 118 | 125 | 147 | 179 | 193 | 74 |
| 155° | 133 | 136 | 147 | 162 | 166 | 61 |
| 165° | 143 | 145 | 147 | 153 | 155 | 40 |
| 175° | 149 | 149 | 148 | 150 | 150 | 14 |
| 180° | 149 | 149 | 149 | 149 | 149 | |

TEST NUMBER: P562534

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1062.8 | 1062.8 | 1062.8 | 1062.8 | 1062.8 |
| 2.5° | 1069.1 | 1059.8 | 1062.8 | 1060.3 | 1056.5 |
| 5° | 1066.7 | 1056.1 | 1059.8 | 1056.9 | 1055.9 |
| 7.5° | 1059.0 | 1048.5 | 1053.3 | 1051.4 | 1050.4 |
| 10° | 1052.0 | 1041.4 | 1047.0 | 1045.1 | 1044.1 |
| 12.5° | 1042.5 | 1032.7 | 1039.2 | 1037.2 | 1037.0 |
| 15° | 1026.4 | 1017.7 | 1026.4 | 1026.4 | 1025.4 |
| 17.5° | 1006.1 | 998.2 | 1007.5 | 1008.1 | 1007.5 |
| 20° | 991.9 | 983.3 | 994.9 | 993.9 | 994.9 |
| 22.5° | 974.6 | 967.5 | 979.9 | 977.4 | 978.4 |
| 25° | 947.7 | 940.9 | 954.5 | 951.6 | 951.6 |
| 27.5° | 915.8 | 911.0 | 925.8 | 922.7 | 922.7 |
| 30° | 894.5 | 889.7 | 905.3 | 901.4 | 901.4 |
| 32.5° | 870.9 | 867.6 | 882.5 | 877.8 | 877.8 |
| 35° | 833.5 | 831.6 | 846.3 | 840.4 | 840.4 |
| 37.5° | 794.9 | 793.2 | 806.5 | 799.4 | 797.1 |
| 40° | 766.6 | 765.6 | 777.4 | 769.5 | 769.5 |
| 42.5° | 738.2 | 737.3 | 747.5 | 738.0 | 738.0 |
| 45° | 694.7 | 692.8 | 699.7 | 690.8 | 688.8 |
| 47.5° | 647.3 | 645.4 | 649.7 | 640.0 | 639.0 |
| 50° | 615.0 | 613.1 | 615.0 | 606.2 | 605.2 |
| 52.5° | 582.0 | 578.5 | 578.8 | 570.0 | 569.8 |
| 55° | 531.4 | 524.7 | 524.5 | 516.6 | 516.6 |
| 57.5° | 477.9 | 469.0 | 469.8 | 463.1 | 462.1 |
| 60° | 440.9 | 431.2 | 432.0 | 426.1 | 425.1 |
| 62.5° | 404.6 | 393.5 | 395.8 | 389.1 | 388.9 |
| 65° | 344.4 | 336.7 | 337.5 | 334.6 | 334.6 |
| 67.5° | 286.6 | 279.4 | 284.6 | 282.2 | 282.0 |
| 70° | 244.0 | 239.2 | 246.0 | 246.0 | 245.0 |
| 72.5° | 204.7 | 204.5 | 213.0 | 213.0 | 213.5 |
| 75° | 148.6 | 155.3 | 164.3 | 165.3 | 165.3 |
| 77.5° | 99.2 | 111.1 | 121.0 | 121.4 | 121.2 |
| 80° | 70.9 | 84.3 | 93.5 | 95.4 | 94.5 |
| 82.5° | 48.0 | 62.3 | 69.9 | 71.8 | 70.9 |
| 85° | 21.6 | 33.2 | 39.4 | 40.3 | 39.4 |
| 87.5° | 6.5 | 13.8 | 17.3 | 16.5 | 14.9 |
| 90° | 1.0 | 2.8 | 7.6 | 3.8 | 3.8 |
| 92.5° | 4.0 | 19.3 | 42.8 | 19.0 | 12.2 |
| 95° | 9.6 | 37.6 | 125.1 | 64.5 | 43.9 |
| 97.5° | 16.6 | 41.3 | 187.2 | 148.9 | 109.7 |
| 100° | 22.0 | 44.4 | 206.3 | 209.1 | 162.4 |
| 102.5° | 26.6 | 47.5 | 211.7 | 260.5 | 220.5 |
| 105° | 34.4 | 52.1 | 211.1 | 320.5 | 299.0 |
| 107.5° | 42.4 | 58.9 | 199.1 | 351.7 | 356.9 |
| 110° | 47.8 | 62.7 | 189.1 | 359.7 | 382.1 |

TEST NUMBER: P562534

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 53.1 | 67.3 | 180.0 | 354.6 | 389.0 |
| 115° | 61.1 | 74.2 | 169.1 | 337.3 | 385.0 |
| 117.5° | 69.0 | 80.9 | 161.6 | 313.4 | 366.3 |
| 120° | 73.6 | 84.8 | 158.6 | 297.3 | 348.7 |
| 122.5° | 78.1 | 89.4 | 156.3 | 281.2 | 331.9 |
| 125° | 85.0 | 95.3 | 153.8 | 259.9 | 306.6 |
| 127.5° | 90.6 | 101.0 | 151.7 | 242.8 | 282.2 |
| 130° | 93.6 | 104.8 | 150.9 | 232.0 | 268.4 |
| 132.5° | 96.7 | 107.9 | 150.2 | 222.8 | 255.4 |
| 135° | 101.3 | 111.5 | 149.0 | 209.8 | 237.9 |
| 137.5° | 106.0 | 116.1 | 148.8 | 200.2 | 223.2 |
| 140° | 109.9 | 119.2 | 148.1 | 192.5 | 214.0 |
| 142.5° | 112.9 | 121.5 | 148.1 | 187.1 | 205.6 |
| 145° | 117.5 | 125.0 | 147.1 | 179.0 | 193.0 |
| 147.5° | 122.1 | 129.4 | 147.1 | 172.2 | 183.8 |
| 150° | 125.1 | 131.7 | 147.1 | 168.3 | 177.7 |
| 152.5° | 128.2 | 133.2 | 147.1 | 165.2 | 172.3 |
| 155° | 132.8 | 136.5 | 147.1 | 161.5 | 166.2 |
| 157.5° | 136.2 | 139.8 | 147.1 | 158.3 | 161.6 |
| 160° | 138.5 | 141.3 | 147.1 | 156.7 | 158.6 |
| 162.5° | 140.8 | 142.9 | 147.1 | 155.2 | 157.0 |
| 165° | 143.3 | 145.2 | 147.1 | 152.9 | 154.8 |
| 167.5° | 145.6 | 146.5 | 148.1 | 151.9 | 152.7 |
| 170° | 147.1 | 148.0 | 148.1 | 151.9 | 151.9 |
| 172.5° | 147.9 | 148.1 | 148.1 | 151.1 | 150.4 |
| 175° | 149.0 | 149.0 | 148.1 | 150.0 | 150.0 |
| 177.5° | 149.0 | 149.0 | 148.3 | 149.8 | 149.0 |
| 180° | 149.0 | 149.0 | 149.0 | 149.0 | 149.0 |

(END OF REPORT)