

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: P563242

Luminaire Tested: **SQ4-PP3-025U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563242
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-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

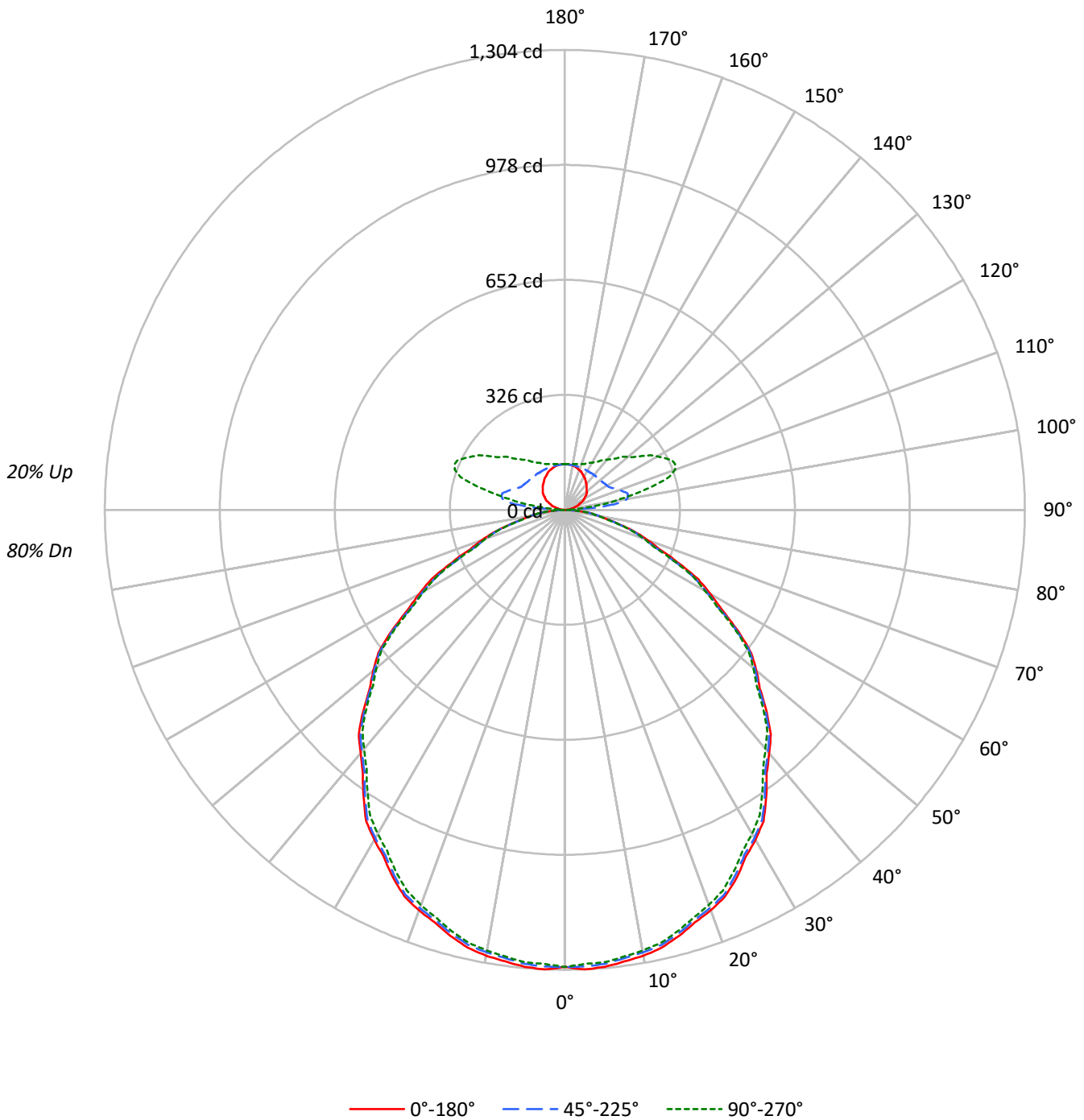
Lumens per Lamp: N/A
Luminaire Lumens: 4157.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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 | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 100 | 100 | 100 | 91 | 91 | 91 | 83 | 83 | 83 | 80 |
| 1 | 105 | 100 | 96 | 93 | 100 | 96 | 93 | 90 | 88 | 86 | 83 | 81 | 79 | 77 | 74 | 73 | 71 | 68 |
| 2 | 96 | 88 | 82 | 76 | 91 | 85 | 79 | 74 | 78 | 73 | 69 | 72 | 68 | 65 | 66 | 63 | 60 | 57 |
| 3 | 88 | 78 | 70 | 64 | 83 | 75 | 68 | 62 | 69 | 63 | 59 | 64 | 59 | 55 | 59 | 55 | 52 | 49 |
| 4 | 80 | 69 | 61 | 55 | 76 | 66 | 59 | 53 | 61 | 55 | 50 | 57 | 52 | 47 | 52 | 48 | 45 | 42 |
| 5 | 74 | 62 | 53 | 47 | 70 | 59 | 52 | 46 | 55 | 49 | 44 | 51 | 46 | 41 | 47 | 43 | 39 | 37 |
| 6 | 68 | 56 | 47 | 41 | 65 | 54 | 46 | 40 | 50 | 43 | 38 | 46 | 41 | 36 | 43 | 38 | 35 | 32 |
| 7 | 63 | 50 | 42 | 36 | 60 | 49 | 41 | 35 | 45 | 39 | 34 | 42 | 37 | 32 | 39 | 34 | 31 | 29 |
| 8 | 59 | 46 | 38 | 32 | 56 | 44 | 37 | 32 | 41 | 35 | 30 | 39 | 33 | 29 | 36 | 31 | 28 | 26 |
| 9 | 55 | 42 | 34 | 29 | 52 | 41 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 33 | 29 | 25 | 23 |
| 10 | 51 | 39 | 31 | 26 | 49 | 38 | 30 | 26 | 35 | 29 | 25 | 33 | 28 | 24 | 31 | 26 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11957 | 11957 | 11957 |
| 5° | 12045 | 11971 | 11929 |
| 10° | 12025 | 11939 | 11886 |
| 15° | 11944 | 11879 | 11814 |
| 20° | 11865 | 11799 | 11709 |
| 25° | 11724 | 11644 | 11528 |
| 30° | 11508 | 11447 | 11302 |
| 35° | 11207 | 11130 | 10989 |
| 40° | 10848 | 10779 | 10656 |
| 45° | 10552 | 10477 | 10374 |
| 50° | 10174 | 10108 | 10010 |
| 55° | 9646 | 9519 | 9445 |
| 60° | 8781 | 8531 | 8488 |
| 65° | 7737 | 7414 | 7390 |
| 70° | 6679 | 6404 | 6404 |
| 75° | 5750 | 5668 | 5586 |
| 80° | 5069 | 5127 | 5010 |
| 85° | 3970 | 4330 | 4330 |



TEST NUMBER: P563242

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.5 | 2.9 |
| 10°-20° | 349.9 | 8.4 |
| 20°-30° | 524.1 | 12.6 |
| 30°-40° | 614.8 | 14.8 |
| 40°-50° | 616.7 | 14.8 |
| 50°-60° | 526.1 | 12.7 |
| 60°-70° | 343.1 | 8.3 |
| 70°-80° | 172.1 | 4.1 |
| 80°-90° | 48.3 | 1.2 |
| 90°-100° | 63.1 | 1.5 |
| 100°-110° | 165.9 | 4.0 |
| 110°-120° | 172.0 | 4.1 |
| 120°-130° | 138.0 | 3.3 |
| 130°-140° | 108.3 | 2.6 |
| 140°-150° | 83.1 | 2.0 |
| 150°-160° | 59.9 | 1.4 |
| 160°-170° | 36.6 | 0.9 |
| 170°-180° | 12.4 | 0.3 |
| 0°-30° | 996.6 | 24.0 |
| 0°-40° | 1611.4 | 38.8 |
| 0°-60° | 2754.1 | 66.3 |
| 0°-90° | 3317.7 | 79.8 |
| 90°-120° | 401.1 | 9.6 |
| 90°-150° | 730.4 | 17.6 |
| 90°-180° | 839.0 | 20.2 |
| 0°-180° | 4157.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1296 | 1296 | 1296 | 1296 | 1296 | |
| 5° | 1300 | 1288 | 1293 | 1288 | 1288 | 124 |
| 15° | 1250 | 1238 | 1244 | 1239 | 1237 | 353 |
| 25° | 1152 | 1138 | 1144 | 1134 | 1132 | 530 |
| 35° | 995 | 985 | 988 | 977 | 976 | 622 |
| 45° | 809 | 803 | 803 | 795 | 795 | 623 |
| 55° | 600 | 598 | 592 | 588 | 587 | 533 |
| 65° | 354 | 348 | 340 | 337 | 338 | 354 |
| 75° | 161 | 161 | 159 | 158 | 157 | 175 |
| 85° | 38 | 41 | 41 | 41 | 41 | 44 |
| 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: P563242

CATALOG NUMBER: SQ4-PP3-025U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1296.0 | 1296.0 | 1296.0 | 1296.0 | 1296.0 |
| 2.5° | 1304.2 | 1293.5 | 1296.0 | 1294.0 | 1288.7 |
| 5° | 1300.5 | 1288.3 | 1292.6 | 1288.0 | 1288.0 |
| 7.5° | 1291.7 | 1278.3 | 1282.6 | 1278.0 | 1277.8 |
| 10° | 1283.5 | 1270.2 | 1274.4 | 1269.8 | 1268.7 |
| 12.5° | 1271.7 | 1258.3 | 1263.5 | 1258.0 | 1257.8 |
| 15° | 1250.5 | 1238.3 | 1243.7 | 1239.1 | 1236.9 |
| 17.5° | 1226.7 | 1213.4 | 1219.9 | 1213.5 | 1212.6 |
| 20° | 1208.5 | 1195.2 | 1201.7 | 1192.6 | 1192.6 |
| 22.5° | 1186.7 | 1173.4 | 1180.8 | 1169.0 | 1169.0 |
| 25° | 1151.7 | 1138.4 | 1143.8 | 1133.5 | 1132.4 |
| 27.5° | 1110.2 | 1097.1 | 1102.7 | 1091.1 | 1090.9 |
| 30° | 1080.2 | 1068.0 | 1074.5 | 1062.0 | 1060.9 |
| 32.5° | 1047.5 | 1036.1 | 1040.9 | 1028.4 | 1027.2 |
| 35° | 995.0 | 985.0 | 988.2 | 976.8 | 975.7 |
| 37.5° | 939.8 | 929.6 | 933.2 | 923.4 | 923.0 |
| 40° | 900.7 | 894.1 | 895.0 | 887.0 | 884.8 |
| 42.5° | 864.4 | 856.8 | 857.8 | 849.8 | 849.4 |
| 45° | 808.7 | 803.2 | 803.0 | 795.1 | 795.1 |
| 47.5° | 749.6 | 745.4 | 744.2 | 737.6 | 737.4 |
| 50° | 708.8 | 705.4 | 704.2 | 698.5 | 697.4 |
| 52.5° | 666.1 | 664.5 | 660.6 | 655.8 | 655.6 |
| 55° | 599.7 | 597.5 | 591.8 | 588.3 | 587.2 |
| 57.5° | 527.7 | 523.3 | 516.8 | 511.8 | 512.7 |
| 60° | 475.9 | 471.5 | 462.3 | 460.0 | 460.0 |
| 62.5° | 425.9 | 420.6 | 411.4 | 408.3 | 410.0 |
| 65° | 354.4 | 347.7 | 339.6 | 337.4 | 338.5 |
| 67.5° | 289.4 | 283.4 | 274.6 | 274.6 | 273.7 |
| 70° | 247.6 | 244.3 | 237.4 | 237.4 | 237.4 |
| 72.5° | 210.4 | 208.8 | 203.8 | 203.7 | 202.9 |
| 75° | 161.3 | 161.3 | 159.0 | 157.9 | 156.7 |
| 77.5° | 120.9 | 121.3 | 120.2 | 119.0 | 117.0 |
| 80° | 95.4 | 97.6 | 96.5 | 95.4 | 94.3 |
| 82.5° | 71.8 | 74.0 | 73.8 | 71.8 | 71.6 |
| 85° | 37.5 | 40.8 | 40.9 | 40.9 | 40.9 |
| 87.5° | 10.2 | 14.0 | 15.9 | 15.2 | 16.1 |
| 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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CATALOG NUMBER: SQ4-PP3-025U-100D-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)