

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: P563483

Luminaire Tested: **SQ4-PP3-0U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563483
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

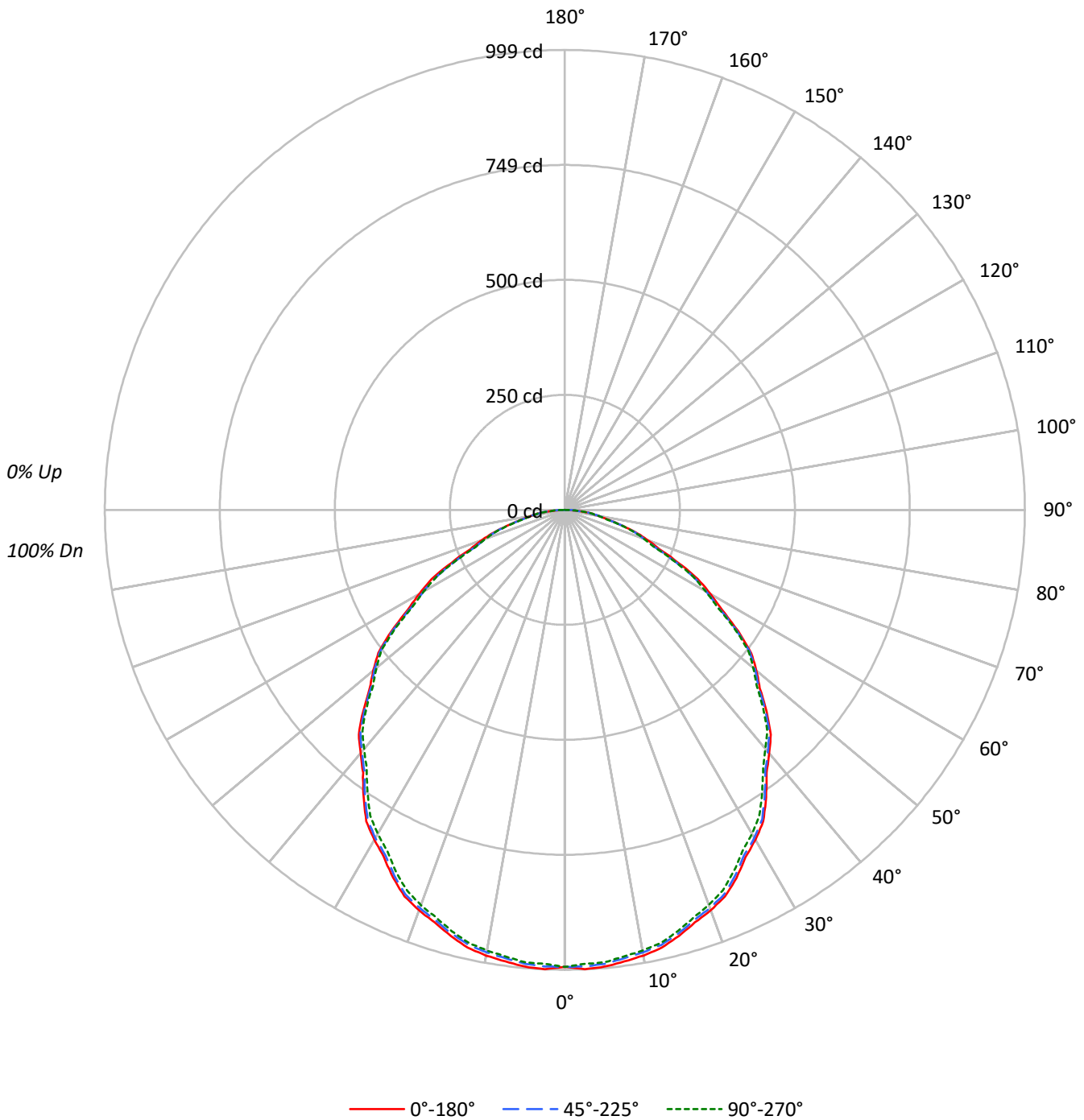
Lumens per Lamp: N/A
Luminaire Lumens: 2540.7 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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





TEST NUMBER: P563483

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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | 100 | |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | 85 | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | 72 | |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 64 | 72 | 67 | 63 | 61 | | | 61 | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | | | 53 | |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 49 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 | | | 46 | |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 49 | 43 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 42 | 40 | | | 40 | |
| 7 | 66 | 53 | 45 | 39 | 65 | 52 | 44 | 39 | 51 | 44 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | | | 36 | |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 34 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | 32 | |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 29 | | | 29 | |
| 10 | 54 | 41 | 34 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | 26 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6106 | 6106 | 6106 |
| 5° | 6150 | 6113 | 6092 |
| 10° | 6140 | 6096 | 6070 |
| 15° | 6100 | 6066 | 6033 |
| 20° | 6059 | 6025 | 5979 |
| 25° | 5987 | 5946 | 5887 |
| 30° | 5876 | 5845 | 5771 |
| 35° | 5722 | 5683 | 5611 |
| 40° | 5539 | 5505 | 5441 |
| 45° | 5388 | 5350 | 5297 |
| 50° | 5195 | 5161 | 5112 |
| 55° | 4926 | 4861 | 4823 |
| 60° | 4484 | 4356 | 4334 |
| 65° | 3950 | 3786 | 3774 |
| 70° | 3412 | 3269 | 3269 |
| 75° | 2935 | 2895 | 2854 |
| 80° | 2589 | 2618 | 2557 |
| 85° | 2025 | 2209 | 2209 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.9 | 3.7 |
| 10°-20° | 268.0 | 10.5 |
| 20°-30° | 401.5 | 15.8 |
| 30°-40° | 470.9 | 18.5 |
| 40°-50° | 472.4 | 18.6 |
| 50°-60° | 403.0 | 15.9 |
| 60°-70° | 262.8 | 10.3 |
| 70°-80° | 131.8 | 5.2 |
| 80°-90° | 36.5 | 1.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 763.3 | 30.0 |
| 0°-40° | 1234.2 | 48.6 |
| 0°-60° | 2109.5 | 83.0 |
| 0°-90° | 2540.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2540.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 993 | 993 | 993 | 993 | 993 | |
| 5° | 996 | 987 | 990 | 987 | 987 | 95 |
| 15° | 958 | 948 | 953 | 949 | 947 | 270 |
| 25° | 882 | 872 | 876 | 868 | 867 | 406 |
| 35° | 762 | 754 | 757 | 748 | 747 | 476 |
| 45° | 619 | 615 | 615 | 609 | 609 | 477 |
| 55° | 459 | 458 | 453 | 451 | 450 | 408 |
| 65° | 271 | 266 | 260 | 258 | 259 | 271 |
| 75° | 124 | 124 | 122 | 121 | 120 | 134 |
| 85° | 29 | 31 | 31 | 31 | 31 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 992.7 | 992.7 | 992.7 | 992.7 | 992.7 |
| 2.5° | 998.9 | 990.8 | 992.7 | 991.2 | 987.1 |
| 5° | 996.1 | 986.8 | 990.0 | 986.6 | 986.6 |
| 7.5° | 989.4 | 979.1 | 982.4 | 978.9 | 978.7 |
| 10° | 983.1 | 972.9 | 976.1 | 972.6 | 971.8 |
| 12.5° | 974.0 | 963.8 | 967.8 | 963.6 | 963.4 |
| 15° | 957.9 | 948.5 | 952.6 | 949.1 | 947.4 |
| 17.5° | 939.6 | 929.4 | 934.4 | 929.5 | 928.8 |
| 20° | 925.7 | 915.5 | 920.4 | 913.5 | 913.5 |
| 22.5° | 909.0 | 898.8 | 904.4 | 895.4 | 895.4 |
| 25° | 882.2 | 872.0 | 876.1 | 868.2 | 867.4 |
| 27.5° | 850.3 | 840.3 | 844.6 | 835.7 | 835.5 |
| 30° | 827.4 | 818.0 | 823.0 | 813.4 | 812.6 |
| 32.5° | 802.3 | 793.6 | 797.3 | 787.7 | 786.8 |
| 35° | 762.1 | 754.5 | 756.9 | 748.2 | 747.3 |
| 37.5° | 719.8 | 712.0 | 714.8 | 707.3 | 707.0 |
| 40° | 689.9 | 684.8 | 685.6 | 679.4 | 677.7 |
| 42.5° | 662.1 | 656.3 | 657.0 | 650.9 | 650.6 |
| 45° | 619.4 | 615.2 | 615.1 | 609.0 | 609.0 |
| 47.5° | 574.2 | 571.0 | 570.0 | 565.0 | 564.8 |
| 50° | 542.9 | 540.3 | 539.4 | 535.0 | 534.2 |
| 52.5° | 510.2 | 509.0 | 506.0 | 502.3 | 502.2 |
| 55° | 459.4 | 457.7 | 453.3 | 450.6 | 449.8 |
| 57.5° | 404.2 | 400.8 | 395.8 | 392.0 | 392.7 |
| 60° | 364.5 | 361.1 | 354.1 | 352.3 | 352.3 |
| 62.5° | 326.2 | 322.2 | 315.1 | 312.7 | 314.1 |
| 65° | 271.4 | 266.3 | 260.1 | 258.4 | 259.3 |
| 67.5° | 221.7 | 217.1 | 210.4 | 210.3 | 209.7 |
| 70° | 189.7 | 187.1 | 181.8 | 181.8 | 181.8 |
| 72.5° | 161.1 | 159.9 | 156.1 | 156.1 | 155.4 |
| 75° | 123.5 | 123.5 | 121.8 | 120.9 | 120.1 |
| 77.5° | 92.6 | 92.9 | 92.0 | 91.1 | 89.6 |
| 80° | 73.1 | 74.8 | 73.9 | 73.1 | 72.2 |
| 82.5° | 55.0 | 56.7 | 56.5 | 55.0 | 54.8 |
| 85° | 28.7 | 31.3 | 31.3 | 31.3 | 31.3 |
| 87.5° | 7.7 | 10.4 | 11.1 | 11.2 | 11.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)