

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: P563539

Luminaire Tested: **SQ4-PP3-0U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563539
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-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

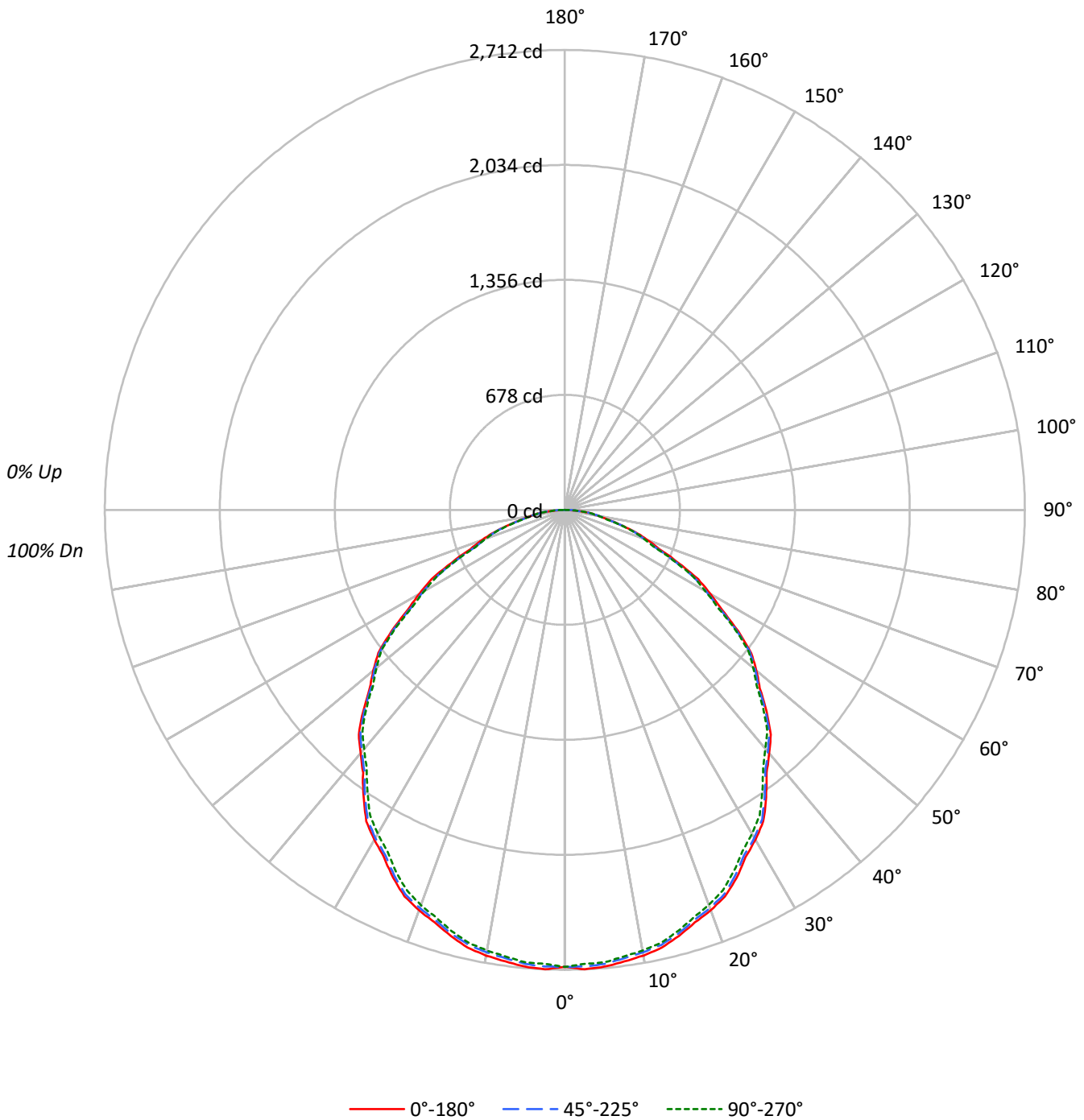
Lumens per Lamp: N/A
Luminaire Lumens: 6897.4 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 64 | 72 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 49 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 49 | 43 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 42 | 40 |
| 7 | 66 | 53 | 45 | 39 | 65 | 52 | 44 | 39 | 51 | 44 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 34 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 29 |
| 10 | 54 | 41 | 34 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16576 | 16576 | 16576 |
| 5° | 16697 | 16595 | 16537 |
| 10° | 16669 | 16551 | 16477 |
| 15° | 16559 | 16469 | 16379 |
| 20° | 16449 | 16357 | 16233 |
| 25° | 16253 | 16141 | 15981 |
| 30° | 15953 | 15869 | 15668 |
| 35° | 15536 | 15429 | 15234 |
| 40° | 15039 | 14944 | 14773 |
| 45° | 14628 | 14525 | 14381 |
| 50° | 14103 | 14013 | 13877 |
| 55° | 13373 | 13195 | 13095 |
| 60° | 12174 | 11826 | 11768 |
| 65° | 10725 | 10278 | 10243 |
| 70° | 9260 | 8877 | 8877 |
| 75° | 7971 | 7859 | 7745 |
| 80° | 7028 | 7113 | 6943 |
| 85° | 5498 | 5999 | 5999 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 254.8 | 3.7 |
| 10°-20° | 727.6 | 10.5 |
| 20°-30° | 1089.9 | 15.8 |
| 30°-40° | 1278.4 | 18.5 |
| 40°-50° | 1282.4 | 18.6 |
| 50°-60° | 1094.0 | 15.9 |
| 60°-70° | 713.4 | 10.3 |
| 70°-80° | 357.9 | 5.2 |
| 80°-90° | 99.1 | 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° | 2072.3 | 30.0 |
| 0°-40° | 3350.7 | 48.6 |
| 0°-60° | 5727.0 | 83.0 |
| 0°-90° | 6897.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6897.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2695 | 2695 | 2695 | 2695 | 2695 | |
| 5° | 2704 | 2679 | 2688 | 2678 | 2678 | 257 |
| 15° | 2600 | 2575 | 2586 | 2577 | 2572 | 734 |
| 25° | 2395 | 2367 | 2378 | 2357 | 2355 | 1101 |
| 35° | 2069 | 2048 | 2055 | 2031 | 2029 | 1292 |
| 45° | 1682 | 1670 | 1670 | 1653 | 1653 | 1295 |
| 55° | 1247 | 1242 | 1230 | 1223 | 1221 | 1108 |
| 65° | 737 | 723 | 706 | 702 | 704 | 735 |
| 75° | 335 | 335 | 331 | 328 | 326 | 364 |
| 85° | 78 | 85 | 85 | 85 | 85 | 94 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2694.9 | 2694.9 | 2694.9 | 2694.9 | 2694.9 |
| 2.5° | 2711.9 | 2689.7 | 2694.9 | 2690.9 | 2679.8 |
| 5° | 2704.3 | 2678.9 | 2687.8 | 2678.4 | 2678.4 |
| 7.5° | 2685.9 | 2658.2 | 2667.0 | 2657.6 | 2657.1 |
| 10° | 2668.9 | 2641.2 | 2650.0 | 2640.5 | 2638.2 |
| 12.5° | 2644.4 | 2616.6 | 2627.4 | 2616.0 | 2615.5 |
| 15° | 2600.4 | 2575.0 | 2586.3 | 2576.7 | 2572.1 |
| 17.5° | 2550.8 | 2523.1 | 2536.7 | 2523.4 | 2521.5 |
| 20° | 2513.0 | 2485.3 | 2498.9 | 2480.0 | 2480.0 |
| 22.5° | 2467.7 | 2440.0 | 2455.4 | 2430.8 | 2430.8 |
| 25° | 2394.9 | 2367.2 | 2378.4 | 2357.1 | 2354.8 |
| 27.5° | 2308.5 | 2281.2 | 2292.9 | 2268.8 | 2268.3 |
| 30° | 2246.1 | 2220.7 | 2234.3 | 2208.3 | 2206.0 |
| 32.5° | 2178.1 | 2154.6 | 2164.4 | 2138.4 | 2136.1 |
| 35° | 2069.0 | 2048.2 | 2054.8 | 2031.2 | 2028.9 |
| 37.5° | 1954.2 | 1933.0 | 1940.5 | 1920.2 | 1919.3 |
| 40° | 1873.0 | 1859.1 | 1861.2 | 1844.5 | 1839.9 |
| 42.5° | 1797.4 | 1781.7 | 1783.7 | 1767.1 | 1766.2 |
| 45° | 1681.7 | 1670.1 | 1669.8 | 1653.3 | 1653.3 |
| 47.5° | 1558.8 | 1550.1 | 1547.5 | 1533.8 | 1533.3 |
| 50° | 1473.8 | 1466.9 | 1464.4 | 1452.5 | 1450.2 |
| 52.5° | 1385.0 | 1381.8 | 1373.7 | 1363.7 | 1363.3 |
| 55° | 1247.1 | 1242.5 | 1230.5 | 1223.4 | 1221.1 |
| 57.5° | 1097.3 | 1088.1 | 1074.7 | 1064.3 | 1066.2 |
| 60° | 989.6 | 980.4 | 961.3 | 956.6 | 956.6 |
| 62.5° | 885.7 | 874.6 | 855.5 | 848.9 | 852.6 |
| 65° | 736.9 | 723.0 | 706.2 | 701.5 | 703.8 |
| 67.5° | 601.8 | 589.3 | 571.1 | 571.1 | 569.2 |
| 70° | 514.9 | 508.0 | 493.6 | 493.6 | 493.6 |
| 72.5° | 437.4 | 434.2 | 423.7 | 423.7 | 421.8 |
| 75° | 335.4 | 335.4 | 330.7 | 328.2 | 325.9 |
| 77.5° | 251.3 | 252.2 | 249.9 | 247.4 | 243.3 |
| 80° | 198.4 | 203.0 | 200.8 | 198.3 | 196.0 |
| 82.5° | 149.3 | 153.9 | 153.5 | 149.3 | 148.8 |
| 85° | 77.9 | 84.9 | 85.0 | 85.0 | 85.0 |
| 87.5° | 20.8 | 28.2 | 30.2 | 30.3 | 32.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)