

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: P563451

Luminaire Tested: **SQ4-PP3-075U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563451
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

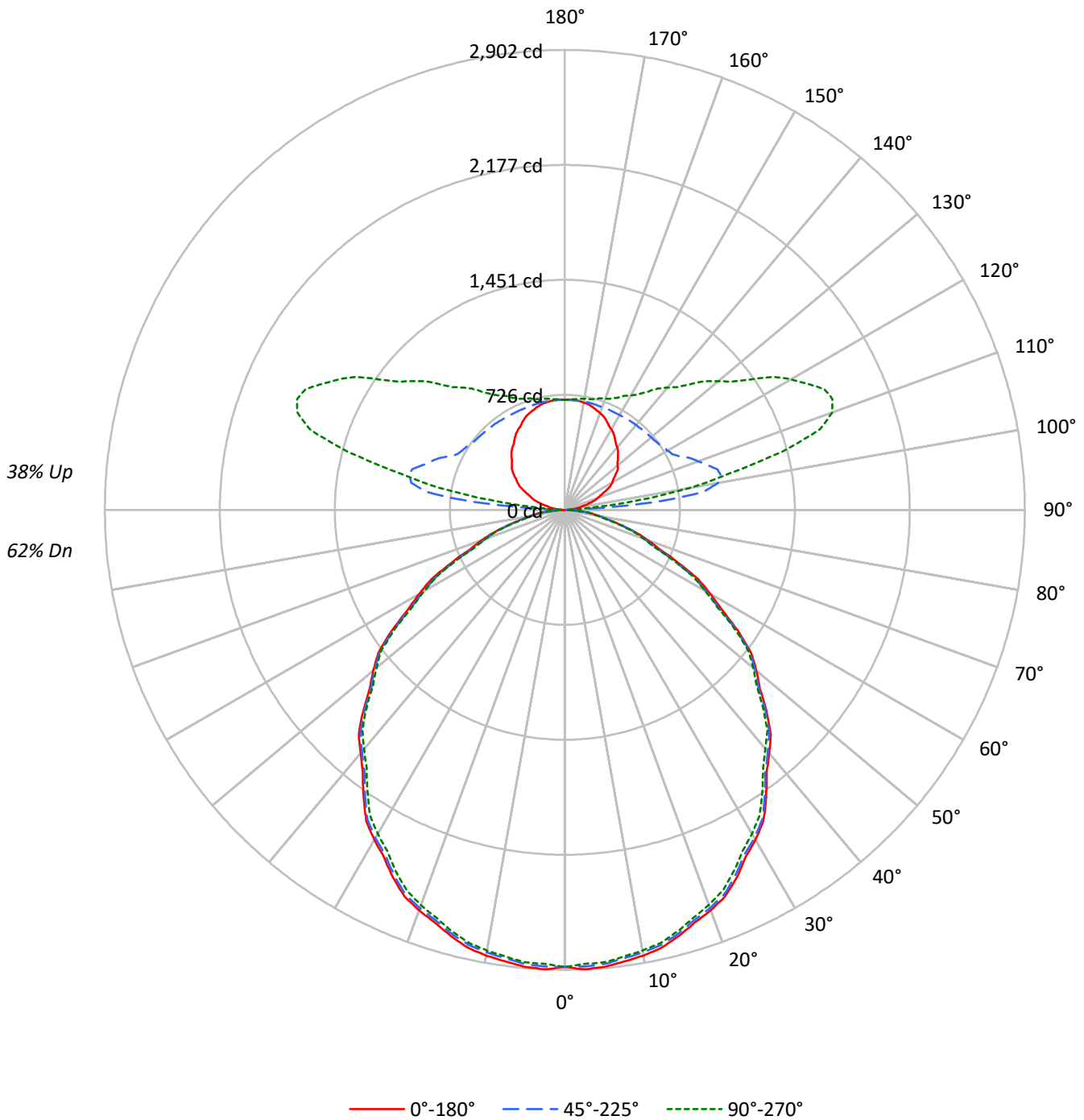
Lumens per Lamp: N/A
Luminaire Lumens: 11918.6 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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: P563451

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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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 62 |
| 1 | 101 | 96 | 93 | 89 | 94 | 90 | 87 | 84 | 79 | 77 | 75 | 69 | 67 | 66 | 60 | 58 | 57 | 53 |
| 2 | 92 | 84 | 78 | 73 | 86 | 79 | 74 | 69 | 70 | 66 | 62 | 61 | 58 | 55 | 53 | 51 | 49 | 45 |
| 3 | 84 | 74 | 67 | 61 | 78 | 70 | 63 | 58 | 62 | 57 | 52 | 54 | 50 | 47 | 47 | 44 | 42 | 38 |
| 4 | 77 | 66 | 58 | 52 | 72 | 62 | 55 | 50 | 55 | 49 | 45 | 48 | 44 | 40 | 42 | 39 | 36 | 33 |
| 5 | 71 | 59 | 51 | 45 | 66 | 56 | 48 | 43 | 49 | 43 | 39 | 43 | 39 | 35 | 38 | 34 | 31 | 28 |
| 6 | 65 | 53 | 45 | 39 | 61 | 50 | 43 | 37 | 44 | 38 | 34 | 39 | 34 | 31 | 34 | 31 | 28 | 25 |
| 7 | 60 | 48 | 40 | 34 | 56 | 45 | 38 | 33 | 40 | 34 | 30 | 36 | 31 | 27 | 31 | 28 | 25 | 22 |
| 8 | 56 | 44 | 36 | 30 | 52 | 41 | 34 | 29 | 37 | 31 | 27 | 33 | 28 | 24 | 29 | 25 | 22 | 20 |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 30 | 25 | 22 | 27 | 23 | 20 | 18 |
| 10 | 49 | 37 | 29 | 24 | 46 | 35 | 28 | 23 | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17738 | 17738 | 17738 |
| 5° | 17868 | 17759 | 17696 |
| 10° | 17838 | 17712 | 17633 |
| 15° | 17720 | 17623 | 17527 |
| 20° | 17602 | 17503 | 17371 |
| 25° | 17393 | 17273 | 17102 |
| 30° | 17071 | 16982 | 16766 |
| 35° | 16624 | 16511 | 16302 |
| 40° | 16093 | 15991 | 15809 |
| 45° | 15653 | 15543 | 15389 |
| 50° | 15091 | 14995 | 14850 |
| 55° | 14311 | 14121 | 14013 |
| 60° | 13027 | 12655 | 12592 |
| 65° | 11477 | 10998 | 10962 |
| 70° | 9909 | 9499 | 9499 |
| 75° | 8529 | 8408 | 8289 |
| 80° | 7520 | 7608 | 7431 |
| 85° | 5886 | 6422 | 6422 |



TEST NUMBER: P563451

CATALOG NUMBER: SQ4-PP3-075U-125D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 272.7 | 2.3 |
| 10°-20° | 778.6 | 6.5 |
| 20°-30° | 1166.3 | 9.8 |
| 30°-40° | 1368.0 | 11.5 |
| 40°-50° | 1372.3 | 11.5 |
| 50°-60° | 1170.7 | 9.8 |
| 60°-70° | 763.5 | 6.4 |
| 70°-80° | 383.0 | 3.2 |
| 80°-90° | 107.8 | 0.9 |
| 90°-100° | 328.4 | 2.8 |
| 100°-110° | 903.5 | 7.6 |
| 110°-120° | 932.6 | 7.8 |
| 120°-130° | 747.2 | 6.3 |
| 130°-140° | 586.8 | 4.9 |
| 140°-150° | 449.7 | 3.8 |
| 150°-160° | 323.3 | 2.7 |
| 160°-170° | 197.7 | 1.7 |
| 170°-180° | 66.6 | 0.6 |
| 0°-30° | 2217.6 | 18.6 |
| 0°-40° | 3585.6 | 30.1 |
| 0°-60° | 6128.5 | 51.4 |
| 0°-90° | 7382.7 | 61.9 |
| 90°-120° | 2164.4 | 18.2 |
| 90°-150° | 3948.2 | 33.1 |
| 90°-180° | 4536.0 | 38.1 |
| 0°-180° | 11918.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2884 | 2884 | 2884 | 2884 | 2884 | |
| 5° | 2894 | 2867 | 2876 | 2866 | 2866 | 275 |
| 15° | 2783 | 2756 | 2768 | 2757 | 2752 | 785 |
| 25° | 2563 | 2533 | 2545 | 2522 | 2520 | 1178 |
| 35° | 2214 | 2192 | 2199 | 2174 | 2171 | 1383 |
| 45° | 1800 | 1787 | 1787 | 1769 | 1769 | 1386 |
| 55° | 1334 | 1330 | 1317 | 1309 | 1307 | 1186 |
| 65° | 789 | 774 | 756 | 751 | 753 | 787 |
| 75° | 359 | 359 | 354 | 351 | 349 | 389 |
| 85° | 83 | 91 | 91 | 91 | 91 | 98 |
| 90° | 2 | 6 | 10 | 13 | 13 | 6 |
| 95° | 49 | 179 | 581 | 248 | 158 | 52 |
| 105° | 162 | 248 | 996 | 1516 | 1415 | 170 |
| 115° | 286 | 348 | 798 | 1590 | 1804 | 282 |
| 125° | 394 | 449 | 724 | 1226 | 1436 | 352 |
| 135° | 476 | 528 | 704 | 991 | 1121 | 367 |
| 145° | 550 | 587 | 693 | 844 | 910 | 345 |
| 155° | 622 | 642 | 689 | 759 | 781 | 286 |
| 165° | 673 | 681 | 692 | 720 | 724 | 190 |
| 175° | 696 | 698 | 693 | 702 | 701 | 66 |
| 180° | 696 | 696 | 696 | 696 | 696 | |

TEST NUMBER: P563451

CATALOG NUMBER: SQ4-PP3-075U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2883.8 | 2883.8 | 2883.8 | 2883.8 | 2883.8 |
| 2.5° | 2902.0 | 2878.3 | 2883.8 | 2879.5 | 2867.6 |
| 5° | 2893.9 | 2866.8 | 2876.2 | 2866.1 | 2866.1 |
| 7.5° | 2874.2 | 2844.6 | 2854.0 | 2843.9 | 2843.4 |
| 10° | 2856.0 | 2826.4 | 2835.8 | 2825.6 | 2823.2 |
| 12.5° | 2829.7 | 2800.1 | 2811.5 | 2799.4 | 2798.9 |
| 15° | 2782.7 | 2755.5 | 2767.6 | 2757.3 | 2752.4 |
| 17.5° | 2729.7 | 2700.0 | 2714.5 | 2700.3 | 2698.3 |
| 20° | 2689.2 | 2659.6 | 2674.0 | 2653.8 | 2653.8 |
| 22.5° | 2640.7 | 2611.0 | 2627.5 | 2601.3 | 2601.3 |
| 25° | 2562.8 | 2533.2 | 2545.1 | 2522.3 | 2519.9 |
| 27.5° | 2470.3 | 2441.2 | 2453.7 | 2427.9 | 2427.4 |
| 30° | 2403.6 | 2376.4 | 2391.0 | 2363.1 | 2360.6 |
| 32.5° | 2330.8 | 2305.6 | 2316.2 | 2288.3 | 2285.8 |
| 35° | 2214.0 | 2191.8 | 2198.9 | 2173.6 | 2171.1 |
| 37.5° | 2091.2 | 2068.5 | 2076.6 | 2054.8 | 2053.8 |
| 40° | 2004.3 | 1989.4 | 1991.6 | 1973.8 | 1968.9 |
| 42.5° | 1923.4 | 1906.6 | 1908.7 | 1891.0 | 1890.0 |
| 45° | 1799.5 | 1787.2 | 1786.9 | 1769.2 | 1769.2 |
| 47.5° | 1668.1 | 1658.7 | 1656.0 | 1641.3 | 1640.8 |
| 50° | 1577.1 | 1569.7 | 1567.0 | 1554.3 | 1551.9 |
| 52.5° | 1482.1 | 1478.6 | 1470.0 | 1459.3 | 1458.8 |
| 55° | 1334.5 | 1329.6 | 1316.8 | 1309.2 | 1306.7 |
| 57.5° | 1174.3 | 1164.4 | 1150.0 | 1138.9 | 1140.9 |
| 60° | 1059.0 | 1049.1 | 1028.7 | 1023.6 | 1023.6 |
| 62.5° | 947.8 | 935.9 | 915.4 | 908.5 | 912.4 |
| 65° | 788.6 | 773.7 | 755.7 | 750.7 | 753.2 |
| 67.5° | 644.0 | 630.7 | 611.1 | 611.1 | 609.1 |
| 70° | 551.0 | 543.6 | 528.2 | 528.2 | 528.2 |
| 72.5° | 468.1 | 464.6 | 453.4 | 453.4 | 451.4 |
| 75° | 358.9 | 358.9 | 353.8 | 351.3 | 348.8 |
| 77.5° | 268.9 | 269.9 | 267.4 | 264.8 | 260.3 |
| 80° | 212.3 | 217.2 | 214.8 | 212.2 | 209.8 |
| 82.5° | 159.7 | 164.7 | 164.3 | 159.7 | 159.2 |
| 85° | 83.4 | 90.8 | 91.0 | 91.0 | 91.0 |
| 87.5° | 22.5 | 31.3 | 34.4 | 35.1 | 37.0 |
| 90° | 1.5 | 5.8 | 10.4 | 13.3 | 13.3 |
| 92.5° | 20.4 | 87.4 | 151.4 | 58.1 | 47.7 |
| 95° | 48.9 | 179.3 | 580.7 | 248.3 | 158.5 |
| 97.5° | 79.7 | 198.8 | 886.2 | 682.8 | 481.8 |
| 100° | 102.2 | 210.9 | 982.2 | 991.4 | 808.8 |
| 102.5° | 123.5 | 225.2 | 1007.1 | 1229.9 | 1062.5 |
| 105° | 161.5 | 248.4 | 995.5 | 1516.1 | 1414.7 |
| 107.5° | 197.6 | 277.0 | 938.9 | 1656.3 | 1686.4 |
| 110° | 223.7 | 296.1 | 896.3 | 1691.2 | 1795.5 |

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CATALOG NUMBER: SQ4-PP3-075U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 247.4 | 317.5 | 853.6 | 1668.7 | 1827.5 |
| 115° | 285.9 | 348.2 | 798.5 | 1590.0 | 1804.4 |
| 117.5° | 322.7 | 380.0 | 763.5 | 1479.5 | 1722.0 |
| 120° | 345.2 | 400.2 | 748.1 | 1396.7 | 1647.3 |
| 122.5° | 365.3 | 420.4 | 737.4 | 1324.2 | 1562.0 |
| 125° | 394.1 | 449.1 | 724.4 | 1225.5 | 1435.5 |
| 127.5° | 421.3 | 473.7 | 715.8 | 1143.1 | 1327.3 |
| 130° | 435.5 | 489.1 | 711.1 | 1094.1 | 1262.2 |
| 132.5° | 452.1 | 505.7 | 707.5 | 1051.1 | 1202.9 |
| 135° | 475.5 | 527.7 | 703.7 | 991.1 | 1121.4 |
| 137.5° | 497.5 | 545.8 | 700.4 | 942.5 | 1050.0 |
| 140° | 514.0 | 559.0 | 699.2 | 910.3 | 1007.4 |
| 142.5° | 528.3 | 569.7 | 696.9 | 881.5 | 964.7 |
| 145° | 549.6 | 587.3 | 693.3 | 844.4 | 909.6 |
| 147.5° | 572.4 | 604.9 | 691.5 | 811.5 | 863.7 |
| 150° | 586.6 | 615.6 | 690.3 | 793.5 | 834.0 |
| 152.5° | 599.7 | 626.3 | 689.2 | 777.9 | 811.5 |
| 155° | 622.2 | 642.5 | 688.9 | 759.0 | 780.7 |
| 157.5° | 638.5 | 655.0 | 688.9 | 743.4 | 758.5 |
| 160° | 650.3 | 663.4 | 688.9 | 735.0 | 746.6 |
| 162.5° | 659.8 | 670.5 | 690.0 | 727.9 | 737.1 |
| 165° | 672.6 | 681.2 | 691.8 | 720.1 | 724.4 |
| 167.5° | 681.4 | 688.1 | 693.3 | 713.5 | 714.6 |
| 170° | 687.4 | 691.7 | 693.3 | 711.1 | 711.1 |
| 172.5° | 692.1 | 694.1 | 693.3 | 707.5 | 706.3 |
| 175° | 696.3 | 697.7 | 693.3 | 702.2 | 700.7 |
| 177.5° | 697.4 | 697.4 | 692.7 | 699.8 | 697.4 |
| 180° | 696.3 | 696.3 | 696.3 | 696.3 | 696.3 |

(END OF REPORT)